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Choose Office button  $\rightarrow$  New (Alt+F, N) to open the New Document window. Then click "New from existing..." (it sits directly below the "Blank document" button). ...

On computer, find the existing document you're using for a model. ...

Click to select the file, and then click Create New (in the lower-right corner).

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# 2. Save MS Word Document.

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Click FILE > Save, pick or browse to a folder, type a name for your document in the File name box, and click Save. Save your work as you go - hit Ctrl+S often. To print, click the FILE tab, and then click Print.

3. Place header on page that gives the page number and name of the file the page number must not be added using page number manually.

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## 4. Make paragraph into picture bulleted list.

On the Home tab, in the Paragraph group, click the arrow next to Bullets, and then click Define New Bullet. In Word for Windows: Click Symbol or Picture, and then choose any symbol or picture that we want to use.

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# 5. Adjust spacing so that within the paragraph line contain 1 spacing and between paragraph there is 1.5 spacing.

## Set automatic spacing between lines of text

Select the text you want to change.

On the Format menu, click Paragraph, and then click the Indents and Spacing tab.

Under Line spacing, in the Between lines box, type or select the amount of spacing you want between lines of text.

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# 6. Convert whole paragraph into two column format.

- Select the text you want to format. Selecting text to format.
- Select the Page Layout tab, then click the Columns command. A drop-down menu will appear.
- Select the number of columns you want to create. Formatting text into columns.
- The text will format into columns. The formatted text.



# VMOU SCHOLAR NO. - 214259-010004 7. Add border to entire page.

Go to Page layout > Page Borders.

Make selections for how you want the border to look.

To adjust the distance between the border and the edge of the page, select Options. Make your changes and Select OK.



8. Create index for that document.

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#### **Create the index**

Click where you want to add the index.

On the References tab, in the Index group, click Insert Index.

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In the Index dialog box, you can choose the format for text entries, page numbers, tabs, and leader characters. You can change the overall look of the index by choosing from the Formats dropdown menu.

# 9. Creating table.

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On the Insert tab, in the Tables group, click Table, and then click Insert Table. Under Table size, enter the number of columns and rows. Under AutoFit behavior, choose options to adjust the table size. You can create a table by drawing the rows and columns that you want or by converting text to a table.



# 10. Mail merge.

Mail Merge is most often used to print or email form letters to multiple recipients. Using Mail Merge, you can easily customize form letters for individual recipients. Mail merge is also used to create envelopes or labels in bulk.

To use Mail Merge:

- Select the **Mailings** on the Ribbon.
- Select the **Start Mail Merge** command.
- Select Step by Step Mail Merge Wizard.



- Choose the type of document you want to create. In this example, select Letters.
- Click **Next:Starting document** to move to Step 2.
- Select Use the current document.
- Click Next:Select recipients to move to Step 3.
- Select the **Type a new list** button.
- Click Create to create a data source. The New Address List dialog box appears.
  - Click Customize in the dialog box. The Customize Address List dialog box appears.
  - Select any field you do not need, and click **Delete**.
  - Click **Yes** to confirm that you want to delete the field.
  - Continue to delete any unnecessary fields.
  - Click Add. The Add Field dialog box appears.
  - Enter the new field name.
  - Click OK.
  - Continue to add any fields necessary.
  - Click **OK** to close the Customize Address List dialog box.

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- Enter the necessary data in the New Address List dialog box.
- Click **New Entry** to enter another record.
- Click Close when you have entered all of your data records.
- Enter the file name you want to save the data list as.
- Choose the location where you want to save the file.
- Click **Save**. The Mail Merge Recipients dialog box appears and displays all of the data records in the list.
- Confirm that the data list is correct, and click **OK**.
- Click **Next:Write your letter** to move to Step 4.

#### Steps 4-6

• Write a letter in the current Word document, or use an open existing document.

#### To insert recipient data from the list:

- Place the insertion point in the document where you want the information to appear.
- Select Address block, Greeting line, or Electronic postage from the task pane. A dialog box with options will appear based on your selection.



- Click Next: Preview your letters in the task pane once you have completed your letter.
- Preview the letters to make sure the information from the data record appears correctly in the letter.
- Click Next: Complete the merge.
- Click **Print** to print the letters.
- Click All.
- Click **OK** in the Merge to Printer dialog box.

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• Click **OK** to send the letters to the printer.

# 11. Usage of find tool.

The Find pane helps you find characters, words, and phrases. If you want, you can also replace it with different text. If you're in Reading View, switch to Editing View by clicking Edit Document > Edit in Word Web App. To open the Find pane from the Edit View, press Ctrl+F, or click Home > Find.

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# 12. Closing the MS Word file.

- Step 1: Click on the File Menu Tab.
- Step 2: Click on the Close button provided in the options under File Menu.
- Step 3: If the file is not saved, a pop-up will arise asking you to save the file. ...
- Step 4: In case, the Close button is pressed by mistake, MS Word gives you a second option to cancel the close operation.

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# **MS EXCEL**

1. Enter the data in the following sequence for month as Jan, Feb using fill handle method.

## To use the fill handle:

- 1. Select the cell(s) containing the content you want to use. The fill handle will appear as a small square in the bottom-right corner of the selected cell(s). ...
- 2. Click, hold, and drag the fill handle until all of the cells you want to fill are selected. ...
- 3. Release the mouse to fill the selected cells.

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A	в	С	D
	Sales	Difference	%
January	4700		
February	6200	_ <u>†</u> 1,500	
March	8600	13	T
April	9300		
May	9500		
June	14000		
July	17600		
August	16300		
September	11400		
October	9300		
November	7400		
December	6400		
	A January February March April May June July August September October November December	A B Sales January Sales January 4700 February 6200 March 8600 April 9300 May 9500 June 14000 July 17600 August 16300 September 11400 October 9300 November 7400	ABCABCJanuarySalesDifferenceJanuary4700(1,500)February6200(1,500)March8600(1,500)March9300(1,500)June14000(1,500)June14000(1,500)Juny17600(1,500)September11400(1,500)September9300(1,500)November7400(1,500)December6400(1,500)

- 2. Deletion and addition of rows and columns.
  - Insert or delete rows and columns
  - Select any cell within the column, then go to Home > Insert > Insert Sheet Columns or Delete Sheet Columns.
  - Alternatively, right-click the top of the column, and then select Insert or Delete.

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## 3. Calculate total amount using Auto sum relative addressing.

#### **AutoSum in Excel**

- Select a cell next to the numbers you want to sum: To sum a column, select the cell immediately below the last value in the column.
- Click the AutoSum button on either the Home or Formulas tab.
- Press the Enter key to complete the formula.

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10		=SUBTOT/	=SUBTOTAL(9,B2:B9)				
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12							

4. Format total amount to display two decimal places.

Select the cell with a number (here, B2) and in the Menu, go to Format > Number > More Formats > Custom number format. 3. In the Custom number formats window, enter #,##0.0 and click Apply. Zeros after the decimal point represent the number of decimal places that will be displayed.

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## 5. Create the pivot table to summarize the table.

- Click a cell in the source data or table range.
- Go to Insert > PivotTable. ...
- Excel will display the Create PivotTable dialog with your range or table name selected. ...
- In the Choose where you want the PivotTable report to be placed section, select New Worksheet, or Existing Worksheet.



PivotTable Fiel Choose fields:	ds	×	>
<ul> <li>Year</li> <li>Category</li> <li>Product</li> <li>Sales</li> <li>Rating</li> </ul>			<b>;</b>
Drag fields between areas be	elow: <b>COLUMNS</b> Product	~	
Ull <b>ROWS</b> Year *	∑ VALUES Sum of Sales	*	

## 6. Usage auto Filter tool.

Use the AutoFilter feature to find, show, or hide values—in one or more columns of data. You can filter based on choices you make from a list, or search to find the data that you seek. When you filter data, entire rows will be hidden if the values in one or more columns don't meet the filtering criteria.

Follow these steps to apply an AutoFilter:

- Select the data you want to filter.
- Click **Data** > **Filter**.
- Click the arrow in the column header and decide if you want to choose specific values or search.



• **Choose specific values:** Uncheck (**Select All**) to clear all of the check boxes, and then check the boxes for the specific value(s) you want to see.



• Search for values: In the Search box, type text or numbers that you seek.



- Click **OK** to apply the filter.
- 7. Working with charts.

To create a chart:

Select the **cells** you want to chart, including the **column titles** and **row labels**. These cells will be the **source data** for the chart.

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		А	В	С	D	E	F	
	1	Genre 🔽	2006 🔽	2007 🔽	2008 🔽	2009 🔽	2010 🔽	
	2	Young Adult	\$35,358.00	\$42,685.00	\$20,893.00	\$16,065.00	\$21,388.00	
	3	Classics	\$18,580.00	\$49,225.00	\$16,326.00	\$10,017.00	\$26,134.00	
	4	Mystery	\$78,970.00	\$82,262.00	\$48,640.00	\$49,985.00	\$73,428.00	
	5	Romance	\$94,236.00	\$131,390.00	\$79,022.00	\$71,009.00	\$81,474.00	
	6	Sci-Fi & Fantasy	\$16,730.00	\$19,730.00	\$12,109.00	\$11,355.00	\$17,686,60	
	7							
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Click the **Insert** tab.

In the Charts group, select the desired chart category (Column, for example).



Select the desired **chart type** from the drop-down menu (**Clustered Column**, for example).

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sy	\$16,730.00	\$19,730.00	item counts such as a histogram.							
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The chart will appear in the worksheet.

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2	Classics	\$18,580.00	\$49,	225.00	\$16,3	326.00	\$10,017.0	0 \$26,134.00	
3	Mystery	\$78,970.00	\$82,	262.00	\$48,6	540.00	\$49,985.0	0 \$73,428.00	
4	Romance	\$94,236.00	\$131,	390.00	\$79,0	)22.00	\$71,009.0	0 \$81,474.00	
5	Sci-Fi & Fantasy	\$16,730.00	\$19,	730.00	\$12,1	09.00	\$11,355.0	0 \$17,686.00	
6	Young Adult	\$35,358.00	\$42,	685.00	\$20,8	393.00	\$16,065.0	0 \$21,388.00	
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## Chart tools

Once you insert a chart, a set of **chart tools** arranged into three tabs will appear on the Ribbon. These are only visible when the chart is selected. You can use these three tabs to **modify** your chart.



To change chart type:

From the **Design** tab, click the **Change Chart Type** command. A dialog box appears.



Select the desired chart type, then click OK.

To switch row and column data:

Sometimes when you create a chart, the data may not be grouped the way you want. In the **clustered column chart** below, the Book Sales statistics are grouped **by Fiction and Non-Fiction**, with a column for each year. However, you can also **switch the row and column data** so the chart will group the statistics **by year**, with columns for Fiction and Non-Fiction. In both cases, the chart contains the **same data**—it's just organized differently.



Select the **chart**.

From the **Design** tab, select the **Switch Row/Column** command.



The chart will readjust.

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# **MS POWERPOINT**

1. Creation of blank presentation with title slide layout.

Start PowerPoint. Use the downward-pointing arrow beside Getting Started in the task pane to select New Presentation Blank Presentation. Choose a slide layout with a title and subtitle placeholder. Type Where I Learn in the title placeholder.



2. Open slide master and set design templates as capsules.

Arrange slide content with different slide layouts to suit your taste and preference, or to improve the clarity and readability of the content.

Select the slide that you want to change the layout for.

#### Select **Home** > **Layout**.

Select the layout that you want.

The layouts contain placeholders for text, videos, pictures, charts, shapes, clip art, a background, and more. The layouts also contain the formatting for those objects, like theme colors, fonts, and effects.

3. Set bullet and style in subtitle area up to level 5.

All the content layouts in PowerPoint include bulleted-list formatting. To remove the bullets or add them, you select the content placeholder and click Bullets on the HOME tab. To add a new item and drop down another level, press Enter, and click Increase List Level. Or, press Enter+Tab.



- 4. Draw shape in new slide.
  - Draw a freeform shape
  - On the **Insert** tab, in the **Illustrations** group, click **Shapes**.

- Under **Lines**, do one of the following:
- To draw a shape that has both curved and straight segments, click **Freeform**
- To draw a shape that looks like it was drawn with a pen by hand, or to create smooth

curves, click Scribble

- Click anywhere in the document, and then drag to draw.
   To draw a straight segment with the Freeform tool, click one location, move your pointer to a different location, and then click again; to draw a curved segment, keep your mouse button pressed as you drag to draw.
- To finish drawing the shape, do one of the following:
- To leave the shape open, double-click at any time.
- To close the shape, click near its starting point.

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- 5. Working with slide transition.
- Add slide transitions to bring your presentation to life

Select the slide you want to add a transition to. Select the Transitions tab and choose a transition. Select a transition to see a preview. Select Effect Options to choose the direction and nature of the transition.



6. Adding animation in the slide.

Add animation and effects to text, pictures, shapes, and objects in your PowerPoint presentation.

Add animations and effects

- Select the object or text you want to animate.
- Select Animations and choose an animation.

- Select Effect Options and choose an effect.
- Manage animations and effects
- There are different ways to start animations in your presentation:
- On Click Start an animation when you click a slide.
- With Previous Play an animation at the same time as the previous animation in your sequence.
- After Previous Start an animation immediately after the previous one happens.
- Duration Lengthen or shorten an effect.
- Delay Add time before an effect runs.



# **MS ACCESS**

1. Creation the database in MS Access. Open Access.

Create a database

VMOU

- If Access is already open, select File > New.
- Select Blank database, or select a template.
- Enter a name for the database, select a location, and then select Create.
- If needed, select Enable content in the yellow message bar when the database opens.

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Open the Excel workbook, make sure each column has a heading and a consistent data type, and then select the range of data.

- Select External Data > Excel.
- Select **Browse** to find the Excel file, accept the default values, and then click **OK**.
- Select **Does the first row of your data contain column headings?**, and then click **Next**.
- Complete the rest of the wizard screens, and select **Finish**.

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😑 Import Spreadsheet Wizard	
Microsoft Access can use your column row specified contain column headings	headings as field names for your table.
First Row Contains Column Heading	js
Department	Title
1 Sales & Marketing	Marketing Assistant
2 Finance	Administrative Assistant
3 Executive Management	President
4 Finance	Accountant II
5 Legal	Paralegal
6 Sales & Marketing	Sr. VP Sales & Marketing
7	
8	
9 Operations	Corporate Security Officer
10Legal	Paralegal
11 Engineering	CVP Engineering

# Create Database

Sometimes database requirements can be so specific that using and modifying the existing templates requires more work than just creating a database from scratch. In such case, we make use of blank database.

**Step 1** – Let us now start by opening MS Access.

**Step 2** – Select Blank desktop database. Enter the name and click the Create button.

**Step 3** – Access will create a new blank database and will open up the table which is also completely blank.

2. Create the tables for example department and employee.

This is where we left things off. We created the database and then Access automatically opened up this table-one-datasheet view for a table.

#### SCHOLAR NO. - 214259-010004

Borden			Table Tools	AccessDatabase : Datal	ase- Ci\Users\Muhamr	nad Wagas\Documents\Ac	cessD., 7 -	п ×
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Click on the Name & Caption option in the Ribbon and you will see the following dialog box.

Name	EmployeeID	
Caption	Employee ID	
Description	Number created automaticaly	

Change the name of this field to **EmployeeID** to make it more specific to this table. Enter the other optional information if you want and click Ok.

We now have our employee ID field with the caption Employee ID. This is automatically set to auto number so we don't really need to change the data type.

Let us now add some more fields by clicking on **click to add**.

Once all the fields are added, click the Save icon.

You will now see the Save As dialog box, where you can enter a table name for the table.

Save As	?	×
Table <u>N</u> ame:		
tblEmployee		

# HTML

1. Display a text with various heading levels.

<h1>Heading level 1</h1>

<h2>Heading level 2</h2>

<h3>Heading level 3</h3>

<h4>Heading level 4</h4>

<h5>Heading level 5</h5>

<h6>Heading level 6</h6>

OUTPUT :

Importance of HTML Headings: ⊢ × S DEMO.HTML
 ← → C ③ File | C:/Users/hp/Desktop/DEMO.HTML

# Heading level 1

#### Heading level 2

Heading level 3 Heading level 4

Heading level 5

Heading level 6

2. Usage of address tag.

The <address> tag defines the contact information for the author/owner of a document or an article. The contact information can be an email address, URL, physical address, phone number, social media handle, etc.

```
<html>
<body>
<address>
Organization Name: VMOU<br>
Web Site:
<a href=
"<u>https://www.vmou.ac.in/</u>"><br>
vmou
</a></br> </address>
<!-- address tag ends here -->
```

</body> </html> OUTPUT :

> Organization Name: VMOU Web Site: <u>vmou</u>

3. Display and image as hyperlink.

To use image as a link in HTML, use the <img> tag as well as the <a> tag with the href attribute. The <img> tag is for using an image in a web page and the <a> tag is for adding a link. Under the image tag src attribute, add the URL of the image. With that, also add the height and width. <html>

<head>

```
<title>HTML Image as link</title>
```

</head>

<body>

The following image works as a link:<br/>br>

```
<a href="https://www.qries.com/">
```

<img alt="Qries" src="https://www.qries.com/images/banner\_logo.png"

```
width=150" height="70">
```

</a>

</body>

</html>

4. Display the definition of coffee and milk.

<html>

<body>

<h1>The dl, dd, and dt elements</h1>

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 MSCCS-P

 These three elements are used to create a description list:
 </dl>

 <dl>

 <dt>Coffee</dt>

<dd> A hot drink made from the roasted and ground seeds (coffee beans) of a tropical shrub.

"a cup of coffee"

</dd>

<dt>Milk</dt>

<dd> an opaque white fluid rich in fat and protein, secreted by female mammals for the nourishment of their young.</dd>

</dl>

</body>

</html>

output :

# The dl, dd, and dt elements

These three elements are used to create a description list:

Coffee

A hot drink made from the roasted and ground seeds (coffee beans) of a tropical shrub. "a cup of coffee" Milk

an opaque white fluid rich in fat and protein, secreted by female mammals for the nourishment of their young.

5. Display two text field one is for username and second for password. <form action="../../form-result.php" method="post" target="\_blank">

Username: <input type="text" name="user" placeholder="Username for your login">

Password: <input type="password" name="pass" placeholder="Choose a strong password">

<input type="submit" value="Send data">

</form>

```
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output :

Username: Username for your login

Password: Choose a strong password

Send data
```

6. Refresh the user from current page to Google home page in 5 seconds. <html>

<body>

<script>

```
window.setInterval('refresh()', 5000);
```

// Call a function every 5000 milliseconds

```
// (OR 5 seconds).
```

```
// Refresh or reload page.
function refresh() {
    window .location.reload();
}
</script></body></html>
```

7. Usage of table tag with raw span and column span

The rowspan and colspan are tag attributes. These are used to specify the number of rows or columns a cell should span. The rowspan attribute is for rows as well as the colspan attribute is for columns.

```
<html>
<head>
<style>
table, th, td {
border: 1px solid black;
width: 100px;
height: 50px;
}
</style>
</head>
```

PRAKASH CHOUHAN

MSCCS-P

#### SCHOLAR NO. - 214259-010004

```
<body>
<h1>Heading</h1>
</body>
</html>
```

# output :



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8. Usage of input field like button, ratio button, submit form tags.

<html>

<head><body>

<form>

```
<input type="radio" id="html" name="fav_language" value="HTML">
```

<label for="html">HTML</label><br>

<input type="radio" id="css" name="fav\_language" value="CSS">

<label for="css">CSS</label><br>

```
<input type="radio" id="javascript" name="fav_language" value="JavaScript">
<label for="javascript">JavaScript</label>
```

</form>

</body></head></html>

#### **OUTPUT**:

Choose your favorite Web language:

**O HTML** 

O CSS

○ JavaScript

submit button:

<html>

<head><body>

```
<form action="/action_page.php">
```

<label for="fname">First name:</label><br>

```
<input type="text" id="fname" name="fname" value="VMOU"><br>
```

<label for="lname">Last name:</label><br>

```
<input type="text" id="lname" name="lname" value="KOTA"><br><br>
```

<input type="submit" value="Submit">

</form>

</body></head></html>

**OUTPUT :** 

First name:	
VMOU	
Last name:	
KOTA	

Submit

# XML

1. Design a xml page to display the breakfast menu at a hotel.

```
<br/>
<br/>
breakfast menu>
<food>
<name>Belgian Waffles</name>
<price>$5.95</price>
<description>Two of our famous Belgian Waffles with plenty of real maple
syrup</description>
<calories>650</calories>
</food>
<food>
<name>Strawberry Belgian Waffles</name>
<price>$7.95</price>
<description>Light Belgian waffles covered with strawberries and whipped
cream</description>
<calories>900</calories>
</food>
<food>
<name>Berry-Berry Belgian Waffles</name>
<price>$8.95</price>
<description>Light Belgian waffles covered with an assortment of fresh berries
and whipped cream</description>
<calories>900</calories>
</food>
<food>
<name>French Toast</name>
<price>$4.50</price>
<description>Thick slices made from our homemade sourdough
bread</description>
<calories>600</calories>
</food>
<food>
<name>Homestyle Breakfast</name>
<price>$6.95</price>
```

<description>Two eggs, bacon or sausage, toast, and our ever-popular hash browns</description> <calories>950</calories> </food> </breakfast\_menu> OUTPUT:



#### SCHOLAR NO. - 214259-010004 **OOP in C++**

MSCCS-P

# **1.** Write a program to swap values of two different classes using friend function.

#include <iostream>

using namespace std;

class Swap {

int temp, a, b;

## public:

```
Swap(int a, int b)
   ł
     this->a = a;
     this->b = b;
   }
  friend void swap(Swap&);
};
void swap(Swap& s1)
{
  cout << "\nBefore Swapping: " << s1.a << " " << s1.b;</pre>
  s1.temp = s1.a;
  s1.a = s1.b;
  s1.b = s1.temp;
  cout << "\nAfter Swapping: " << s1.a << " " << s1.b;
}
int main()
{
  Swap s(4, 6);
  swap(s);
  return 0;
}
```

```
VMOU
```

## **Output:**

Before Swapping: 4 6

After Swapping: 64

# 2. Write a program to compare the values of data members of two different classes and maximum out of two using friend function.

#include<iostream>

using namespace std;

class Test {

private:

int x, y;

public:

void input() {

cout << "Enter two numbers:";</pre>

cin >> x>>y;

}

friend void find(Test t);

};

void find(Test t) {

```
if (t.x > t.y) {
```

cout << "Largest is:" << t.x;</pre>

```
} else {
```

```
cout << "Largest is:" << t.y;
```

}

}

VMOU	SCHOLAR NO 214259-010004	MSCCS-P
<pre>int main() {</pre>		
Test t;		
t.input();		
find(t);		
return 0;		
}		
C++		
Output:		
Enter two numbers:10 20	0	
Largest is:20		
3. Write a program to	generate Fibonacci series by using constru	ctor.
<pre>#include<iostream> using namespace std; class fibonacci {     long int a,b; //data me     public:         fibonacci() //special m         {             a=-1;             b=1;         }     } }</iostream></pre>	embers nember function constructor	
}		

```
void fibseries(int n) //member function
{
    int i,next;
```

```
cout<<"\n Resultant fibonacci series";
cout<<"\n-----\n";
for(i=0;i<n;i++)
{
    next=a+b; //Expression
    cout<<next<<endl; //To print the fibseries</pre>
```

```
VMOU
                                 SCHOLAR NO. - 214259-010004
                                                                                MSCCS-P
       a=b;
       b=next;
     }
    }
};
int main()
{
  fibonacci f;
  int n;
  cout<<"\n Fibonacci series \n";
  cout << "\n Enter the range = \n";
  cin>>n;
  f.fibseries(n); //Accessing the members l function fibseries () using Dot (.) operator
  return 0;
}
```

# **Output:**

Fibonacci series

Enter the range =

Resultant fibonacci series

\_\_\_\_\_

0			
1			
1			
2			
3			
5			
8			
13			
21			
34			
55			

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144		
233		
377		
610		
987		
1597		
2584		
4181		
6765		
10946		
17711		
28657		
46368		
75025		
121393		
196418		
317811		
514229		
832040		
1346269		
2178309		
3524578		
5702887		
9227465		
14930352		

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VMOU SCHOLAR NO. - 214259-010004 MSCCS-P 24157817 39088169 63245986 102334155 165580141 267914296 433494437 701408733 1134903170 1836311903 -1323752223512559680 -811192543 4. Write a program to implement sorting (any type) using object as arguments. #include <bits/stdc++.h>

```
using namespace std;
// creating variable of template class
template <class T>
void print(T arr[], int size) {
  for (size_t i = 0; i < size; ++i)
    cout << arr[i] << " ";
    cout << endl;
  }
  int main() {
    int num = 6;
    int arr[num] = { 10, 90, 1, 2, 3 };
    sort(arr, arr + num);
    print(arr, num);
```

```
VMOU SCHOLAR NO. - 214259-010004 MSCCS-P

string str[num] = { "KOTA OPEN", "VMOU", "www.vmou.ac.in" };

sort(str, str + num);

print(str, num);

float float_arr[num] = { 32.0, 12.76, 10.00 };

sort(float_arr, float_arr+num);

print(float_arr, num);

return 0;

}

Output:
```

0 1 2 3 10 90 KOTA OPEN VMOU www.vmou.ac.in

 $10 \ 12.76 \ 32$ 

# 5. Write a program to perform addition of two integers, float and concatenate the string using function overloading.

```
#include <iostream>
```

using namespace std;

int main() {

float num1, num2, sum;

cout << "Enter Two Numbers\n";</pre>

cin >> num1 >> num2;

sum = num1 + num2;

```
cout << "Sum of "<< num1 << " and " << num2 << " is " << sum;
```

return 0;

## }

## Output :

Enter Two Numbers

4 3.5

Sum of 4 and 3.5 is 7.5

```
VMOU
                               SCHOLAR NO. - 214259-010004
                                                                                MSCCS-P
#include <iostream>
#include <string.h>
using namespace std;
class AddString {
public:
  char s1[25], s2[25];
   AddString(char str1[], char str2[])
   {
     strcpy(this->s1, str1);
    strcpy(this->s2, str2);
  }
 void operator+()
  {
     cout << "\nConcatenation: " << strcat(s1, s2);</pre>
  }
};
int main()
{
   char str1[] = "vmou";
  char str2[] = "kota open";
  AddString a1(str1, str2);
   +a1;
  return 0;
}
Output:
```

Concatenation: vmou kota open

# 6. Write a program which determines the area of circle, triangle, rectangle and square using function overloading.

#include<iostream>

using namespace std;

int area(int);

int area(int,int);

float area(float);

float area(float,float);

int main()

#### {

int s,l,b;

float r,bs,ht;

cout<<"Enter side of a square:";

cin>>s;

cout<<"Enter length and breadth of rectangle:";

cin>>l>>b;

cout<<"Enter radius of circle:";</pre>

cin>>r;

cout<<"Enter base and height of triangle:";

cin>>bs>>ht;

cout<<"Area of square is"<<area(s);</pre>

cout<<"\nArea of rectangle is "<<area(l,b);

cout<<"\nArea of circle is "<<area(r);

cout<<"\nArea of triangle is "<<area(bs,ht);

}

```
VMOU
                               SCHOLAR NO. - 214259-010004
                                                                                 MSCCS-P
int area(int s)
{
  return(s*s);
}
int area(int l,int b)
{
  return(l*b);
}
float area(float r)
{
  return(3.14*r*r);
}
float area(float bs,float ht)
{
 return((bs*ht)/2);
}
OUTPUT:
Enter side of a square:2
Enter length and breadth of rectangle:3 6
Enter radius of circle:3
Enter base and height of triangle:4 4
Area of square is4
Area of rectangle is 18
Area of circle is 28.26
Area of triangle is 8
```

# JAVA

## 1. Write a program in java to display the greatest of given 3 numbers.

import java.util.Scanner;

public class Biggest\_Number

```
{
  public static void main(String[] args)
  {
    int x, y, z;
    Scanner s = new Scanner(System.in);
    System.out.print("Enter the first number:");
    x = s.nextInt();
    System.out.print("Enter the second number:");
    y = s.nextInt();
    System.out.print("Enter the third number:");
    z = s.nextInt();
    if(x > y \&\& x > z)
     {
       System.out.println("Largest number is:"+x);
     }
    else if(y > z)
     {
       System.out.println("Largest number is:"+y);
     }
    else
```

```
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{
System.out.println("Largest number is:"+z);
}
}
Output:
```

\$ javac Biggest\_Number.java

\$ java Biggest\_Number

Enter the first number:10

Enter the second number:17

Enter the third number:15

Largest number is:17

2. Write a program to illustrate multiple inheritance to display the students marks with sports details.

```
String name;
int roll_no, Marks1, Marks2;
Student(String n, int rn, int m1, int m2)
{
    name = n;
    roll_no = rn;
    Marks1 = m1;
    Marks2 = m2;
}
```

```
VMOU
```

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```
void show()
{
 System.out.println("Student Name : "+name);
 System.out.println("Roll no : "+roll_no);
 System.out.println("Marks1 : "+Marks1);
 System.out.println("Marks2 : "+Marks2);
}
ł
class Result extends Student implements Exam
{
float per;
Result(String n, int rn, int m1, int m2)
{
 super(n,rn,m1,m2);
}
public void Percent_cal()
{
 int tot = Marks1 + Marks2;
 per = (float)tot / 2;
}
```

```
VMOU
```

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```
void display()
{
  show();
 System.out.println("Percentage = "+per);
}
public class StudentDetails
{
public static void main (String[] args)
{
 Result r = new Result("Aashish",11,75,95);
 r.Percent_cal();
 r.display();
}
}
OUTPUT:
C:\>javac StudentDetails.java
C:\>java StudentDetails
Student Name : Aashish
Roll no : 11
Marks1 : 75
Marks2:95
Percentage = 85.0
```

# 3. Write a program to create moving banner using java applet.

```
import java.applet.*;
```

```
import java.awt.*;
```

public class Banner extends Applet implements Runnable

```
{
  String text = " Sample Banner ";
  Thread t;
  //Initialize the applet
  public void init()
  {
    setBackground(Color.white);
  }
  //Function to start the thread
  public void start()
  {
    t = new Thread(this);
    t.start();
  }
  //Function to execute the thread
  public void run()
  {
     while(true)
     {
       try
```

```
VMOU
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                                                                             MSCCS-P
         repaint();
          //Delay each thread by 1000ms or 1 seconds
         Thread.sleep(1000);
          //Shift the first character of banner text to the last postion
         text = text.substring(1) + text.charAt(0);
       }
       catch(Exception e)
       ł
     ł
   }
  //Function to draw text
  public void paint(Graphics g)
  {
    g.setFont(new Font("TimesRoman",Font.BOLD,15));
    g.drawString(text,200,200);
  }
}
/*
<applet code = Banner.class width=500 height=500>
</applet>
*/
To compile and run the program use the following commands :
>>>javac Banner.java
>>>appletviewer Banner.java
```

## **OUTPUT**:

	Applet Viewer: Banner.class	×
Applet		
	Comple Bonnon	
	Sample Banner	
Applet started.		

## 4. Write a program to display astrix pattern.

public class RightTrianglePattern

```
{
public static void main(String args[])
```

{

//i for rows and j for columns

//row denotes the number of rows you want to print

int i, j, row=6;

//outer loop for rows

```
for(i=0; i<row; i++)
```

```
{
```

//inner loop for columns

```
for(j=0; j<=i; j++)
```

```
{
```

```
VMOU SCHOLAR NO. - 214259-010004
//prints stars
System.out.print("* ");
}
//throws the cursor in a new line after printing each line
```

System.out.println();

```
} } }
```

# **OUTPUT**:





# 5. Write a program to demonstrate the following string methods:

(a)toUppercase (b)Length (c)trim (d)indexof (e)substring (f)concat

```
(a) toUppercase
```

```
public class StringUpperExample{
public static void main(String args[])
{
String s1="hello string";
```

```
String s1upper=s1.toUpperCase();
System.out.println(s1upper);
}}
```

# **Output:**

HELLO STRING

# (b) Length

PRAKASH CHOUHAN

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```
VMOU
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                                                                            MSCCS-P
class CalcLength {
  public static void main( String args[] )
{
    String name = "educative"; //Initilizing a String Object name
    int length = name.length(); //Calling the inbuilt lenght() method
    System.out.println("The length of the String \""+name+"\" is: " +length); }
}
Output :
The length of the String "educative" is: 9
(c)Trim
public class StringTrimExample{
public static void main(String args[])
ł
String s1=" hello string ";
System.out.println(s1+"javatpoint");//without trim()
System.out.println(s1.trim()+"javatpoint");//with trim()
}
}
```

## **Output :**

hello string javatpoint

hello stringjavatpoint 9

# (d)indexof

The **Java String class indexOf()** method returns the position of the first occurrence of the specified character or string in a specified string.

```
VMOU SCHOLAR NO. - 214259-010004 MSCCS-P
public class IndexOfExample{
public static void main(String args[]){
String s1="this is index of example";
int index1=s1.indexOf("is");//returns the index of is substring
int index2=s1.indexOf("index");//returns the index of index substring
System.out.println(index1+" "+index2);//2 8
```

int index3=s1.indexOf("is",4);//returns the index of is substring after 4th index

System.out.println(index3);//5 i.e. the index of another is

int index4=s1.indexOf('s');//returns the index of s char value

System.out.println(index4);//3

}}

### **Output:**

2 8

5

3

## (e)substring

A part of String is called **substring**. substring is a subset of another String. Java String class provides the built-in **substring**() method that extract a substring from the given string by using the index values passed as an argument.

```
public class TestSubstring{
public static void main(String args[]){
String s="SachinTendulkar";
System.out.println("Original String: " + s);
System.out.println("Substring starting from index 6: " +s.substring(6));//Tendulkar
System.out.println("Substring starting from index 0 to 6: "+s.substring(0,6)); //Sachin
```

} }

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#### Output:

Original String: SachinTendulkar

Substring starting from index 6: Tendulkar

Substring starting from index 0 to 6: Sachin

#### (f)concat

class TestStringConcatenation3{

public static void main(String args[]){

String s1="Sachin ";

String s2="Tendulkar";

String s3=s1.concat(s2);

System.out.println(s3);//Sachin Tendulkar

#### } }

#### **Output:**

Sachin Tendulkar

## 6. Create a simple package in java.

import java.util.\*;

// Main Class

class GFG {

public static void main(String[] args) {

Scanner myObj = new Scanner(System.in);

String userName;

System.out.println("Enter You Name");

userName = myObj.nextLine();

System.out.println("Your Name IS : " + userName);

```
}}
```

#### **Output :**

Enter You Name

Your Name IS : 0

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# VB & VB.NET

# **1**. Write a program in VB to calculate average of three numbers.

Private Sub Command1\_Click()

Dim a, b, c As Integer

Dim d As Single

a = Val(Text1.Text)

b = Val(Text2.Text)

c = Val(Text3.Text)

d = (a + b + c) / 3

End

Label4 = "Average of Three Number = " & d

eral 13	8	Project1
	Simple Calculator	
abi		
E	nter 1st Number	
G		
E	nter 2nd Number	
4 C		11111111111111
	Answer	
~ 1		Clear
찉 -		Glear

ſ	🔁 Average	×	Sub		
	First Value 6				
	Second Value 9				
	Third Value 7				
	Average of Three Number = 7.333333				
	Run				

## 2. Make a basic calculator program in VB.

Private Sub Command1\_Click()

Dim ans, n1, n2 As Integer

#### SCHOLAR NO. - 214259-010004

n1 = Val(txt1.Text)n2 = Val(txt2.Text)ans = n1 + n2txtans.Text = ans

End Sub

Private Sub Command2\_Click()

Dim ans, n1, n2 As Integer

n1 = Val(txt1.Text)

n2 = Val(txt2.Text)

ans = n1 - n2

txtans.Text = ans

End Sub

#### Private Sub Command3\_Click()

Dim ans, n1, n2 As Integer

n1 = Val(txt1.Text)

n2 = Val(txt2.Text)

ans = n1 \* n2

txtans.Text = ans

End Sub

Private Sub Command4\_Click()

Dim ans, n1, n2 As Integer

n1 = Val(txt1.Text)

n2 = Val(txt2.Text)

 $ans = n1 \ / \ n2$ 

txtans.Text = ans

0	Simple Calculat	tor – 🗆 🗙
Enter	1st Number	8
Enter	2nd Number	2
	Answer	10
+	,	/ Clear

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---------	-----	-----------------

VMOU End Sub

Private Sub Command6\_Click() txt1.Text = "" txt2.Text = "" txtans.Text = "" End Sub

# 3. Write a program to calculate factorial and sum of n numbers using looping structure.

Private Sub Command1_Click()	🔁 Factorial Number	- • ×
Dim j, i as Integer		
i = CInt(Text1.Text)	Enter Number	5
Label2.Caption = facts(i)		
End Sub	Factorial	120
Private Function facts(i)		I
F = 1	PLIN	
For j = 1 To i	Told	
F = F * j		
facts = F		
Next j		

End Function

## 4. Create a form layout to perform the following tasks:

a. when add button is clicked, the string in the text box should be added to the list.

b. when remove button is clicked, the selected item in the listbox should be removed

#### The Add Item Buttons

The Add Item buttons use the InputBox() function to prompt the user for input, and then they add the usersupplied string to the ListBox control. The code is identical for both buttons (see Listing 4.10).

Listing : The Add New Element Buttons

#### VMOU SCHOLAR NO. - 214259-010004 Private Sub bttnSourceAdd\_Click(...) Handles bttnSourceAdd.Click

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Dim ListItem As String

ListItem = InputBox("Enter new item's name")

If ListItem.Trim <> "" Then

sourceList.Items.Add(ListItem)

End If

End Sub Removing Items from the Two Lists

The code for the Remove Selected Item button is different from that for the Remove Selected Items button. The code for the Remove Selected Item button removes the selected item, while the Remove Selected Items buttons must scan all the items of the left list and remove the selected one.

Private Sub bttnDestinationRemove\_Click(...) \_

Handles bttnDestinationRemove.Click

destinationList.Items.Remove(destinationList.SelectedItem)

End Sub

```
Private Sub bttnSourceRemove_Click(...) _
```

Handles bttnSourceRemove.Click

Dim i As Integer

For i = 0 To sourceList.SelectedIndices.Count - 1

sourceList.Items.RemoveAt(sourceList.SelectedIndices(0))

Next

End Sub

EistBox Example			
Unsorted, Multi-Selection List		Sorted, Single-Selection List	
iPhone 3G iPhone 3GS iPad iPad iPod Touch	>>	iPad 2 iPhone 4 iPod Nano	
Macbook Air	~		
	<<		
Add Item	i i	Add Item	
Remove Selected Items		Remove Selected Item	
Clear		Clear	
Selection Mode MultiSimple	MultiExten	ded	

#### 5. Write a function procedure for the following

#### (a) To find the power of a number

Module Module1

Sub Main()

Dim exponent As Double = 4, n As Double = 2

Dim power As Double

power = Math.Pow(n, exponent)

Console.WriteLine(" $\{0\} \land \{1\} = \{2\}$ ", n, exponent, power)

End Sub

End Module

#### **OUTPUT :**

2 ^ 4 = 16

#### (b) To convert the temperature in Fahrenheit to Celsius.

Private Sub Command2\_Click()

f = Val(TxtInput.Text)

If Val(c) = 0 And TxtInput = "" Then

MsgBox "Enter Any number", vbInformation, "Result"

TxtInput.SetFocus

Else

 $c = (f - 32) * 5 \setminus 9$ 

MsgBox "Celsius :" & " " & c, vbInformation, "Result"

End If

End Sub

💀 Form1			_		×
Conversion of Eabrenheit and Celsius					
			and		
Inpu	ıt a Number	:			
1	1				
	Celsius to Fahrenheit				
	Fah	renheit to Celsius			
	Result		×		
		Fahrenheit : 33.	8		
		ОК			

## 6. Design VB form for user login detail and also validate them.

Dim con As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source=" & amp; Application.StartupPath & amp; "\Login.accdb")

Dim cmd As OleDbCommand = New OleDbCommand( \_

"SELECT \* FROM tblusers WHERE USERNAME = " & amp; \_

TextBox1.Text & amp; "' AND [PASSCODE] = "" & amp; TextBox2.Text & amp; "' ", con)

Dim user As String = ""

Dim pass As String = ""

con.Open()

Dim sdr As OleDbDataReader = cmd.ExecuteReader()

If (sdr.Read() = True) Then

user = sdr("USERNAME")

pass = sdr("PASSCODE")

MessageBox.Show("Login Successfully!")

Me.Close()

VMOU Else

#### SCHOLAR NO. - 214259-010004

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MessageBox.Show("Invalid username or password!")

End If

End Sub

🖳 Form1	
Usemame:	
Password:	
	Login