



Certificate in Computer Application (CCA)

101: FUNDAMENTALS OF IT & PROGRAMMING

ASSIGNMENT

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Q. 1. What are the four fundamental parts of computer? Explain it with the help of diagram.

Ans → A computer has four main fundamental parts of computer:-

- (i) Primary memory
- (ii) CPU
- (iii) Input Devices
- (iv) Output Devices

- Primary memory :-

Primary memory is a Computer storage that only maintains its data while the devices is powered.

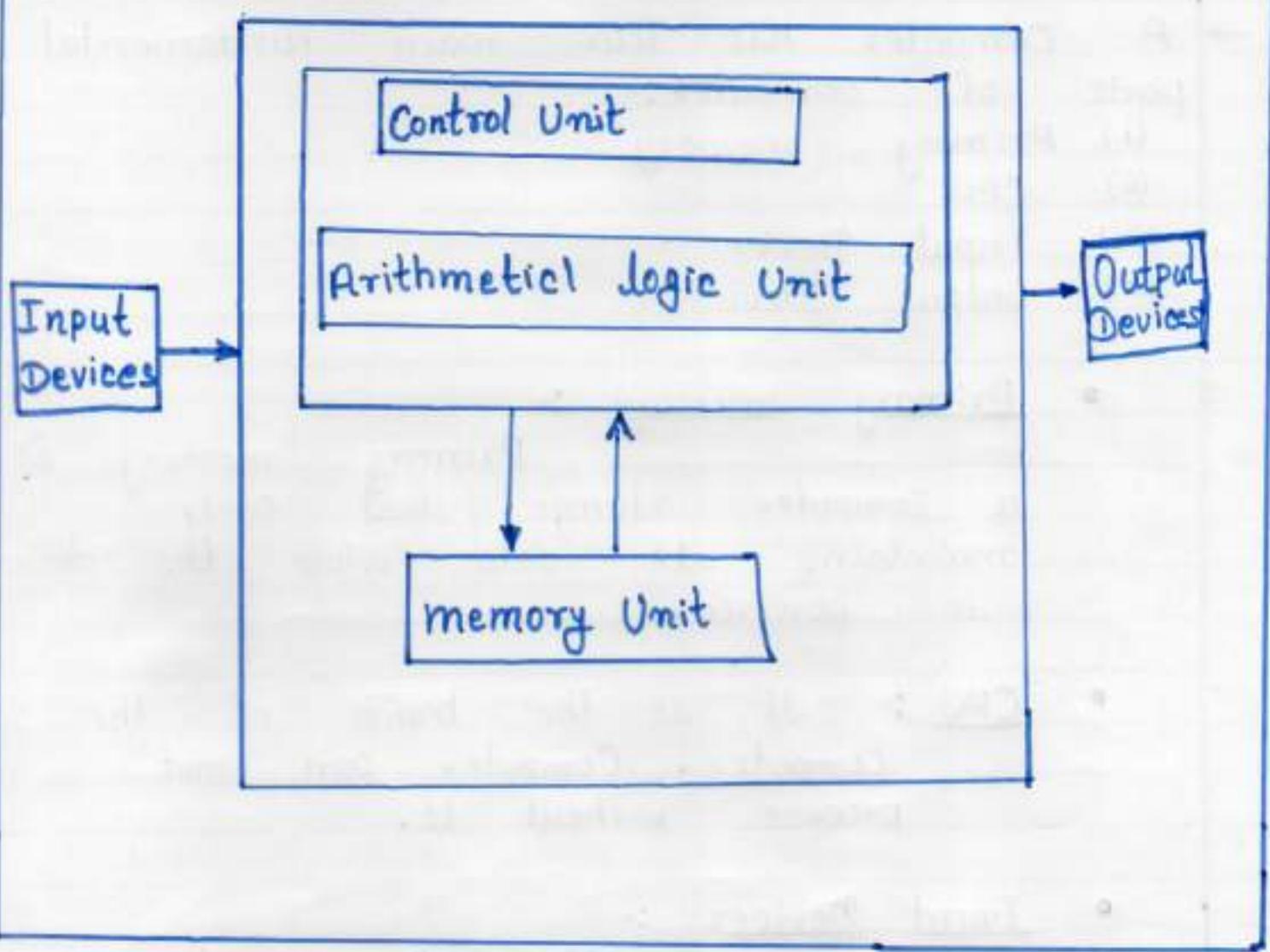
- CPU :- It is the brain of the computer. Computer can not process without it.

- Input Devices :-

The devices to input information, Such as a keyboard, and mouse.

- Output Devices :-

The devices to output information, Such as a printer, monitor and speaker.



Q. 2. Discuss about the classification of computers based on Size and Capacity.

Ans → Computer based on size and capacity, Computers are classified as follows;

- (i) Super Computers
- (ii) Mainframe Computers
- (iii) Mini Computers
- (iv) Micro Computers

- Super Computers :-

Super Computers are the most powerful and physically the largest by size. Example :- JAGUAR

- Mainframe Computers :-

Mainframe Computers are very large often filling an entire room and can process thousands of millions of instruction per second. Example :- IBM z13

- Mini Computers :-

Mini Computers are much smaller than mainframes. These computers are also less expensive. Sometimes referred to as Midrange Server or midrange computer. Example :- Apple iMac

- Micro Computers :-

Micro Computers are the most frequently used type of Computer. It is also, known as Personal Computer (PC). A micro-Computer is a small computer system designed to be used by one person at a time.

Example :- Desktop Computers, Laptops

Q.3. What is the meaning of computers generation? How many Computer generations are defined? what technologies were/ are used?

Ans → Generation in Computer terminology is a change in technology a Computer is being used. Initially, the generation term was used to distinguish between varying hardware technologies.

Computer generations are five term defined:

(1) First Generation : Vacuum Tubes (1940-1956)

The First computer system used Vacuum tubes for circuitry and magnetic drums for memory. These Computers were very expensive to operate. Computers of this generation consumed a lot of electricity. First generation computers relied on machine language, the lowest-level programming to perform operations. They could only solve one problem at a time. It would take operations days or even weeks to set-up a new problem. Input was based on punched cards and paper tape, and output was displayed on printouts. First computers generated a lot of heat which often caused the course of malfunction.

(ii) Second Generation : Transistors (1956 - 1964)

Transistors replaced vacuum tubes in the Second generation of computers. The transistor was far superior to the vacuum tube, allowing computers to become smaller, faster, cheaper, more energy efficient and more reliable than their first generation predecessors. Second generation computers still relied on punched cards for input and printouts for output. Second generation computers moved from binary machine language to symbolic or assembly language.

(iii) Third Generation : Integrated Circuits (1964 - 1971)

The development of the integrated circuit was the hallmark of the third generation of computers. Transistors were replaced by integrated circuits, which drastically improved the efficiency of computers.

(iv) Fourth Generation : Microprocessors (1971 - Present)

The microprocessor brought the fourth generation of computers as thousands of integrated circuits were built onto a single silicon chip. What in the first generation filled an entire room could now fit in the palm of the hand. In 1981, IBM introduced its first computer for the home user. In 1984, Apple introduced the Macintosh. Microprocessor also moved out to the desktop computers. Fourth generation computers also covered the development of Graphical User Interface (GUIs), Mouse and handheld devices.

(v) Fifth Generation : Artificial Intelligence (Present and Beyond)

Fifth generation computing devices, based on artificial intelligence, are still in development. There are some applications such as voice recognition that are being used today. The use of parallel processing and Superconductors is helping to make artificial intelligence a reality. Quantum Computation and nanotechnology will radically change the face of computers in years to come. The goal of fifth-generation Computing is to develop devices that respond to natural language input and are capable of learning and self-organization.

Q. 4. Differentiate between Volatile & Non - Volatile memories .

Ans → **Volatile memories**

(i) Volatile memories is the type of memory in which data is lost as it is powered-off .

(ii) Contents of volatile memory is stored temporarily .

(iii) It is faster than non-Volatile memory

(iv) RAM is an example of volatile memory .

Non - Volatile memories

(i) Non - volatile memories is the type of memory in which data remains stored even if it is powered-off

(ii) Contents of Non-Volatile memory is stored permanently .

(iii) It is slower than volatile memory .

(iv) ROM is an example of Non - volatile memory .

Q. 5. Distinguish among System Software , application Software and open Source Software on the basis of their features.

Ans → System Software :-

It is a type of software that is designed to run a Computer's hardware and application programs . Software like Operating Systems , compilers , editors and drives etc. Come under this category. A computer cannot function without the presence of these . If we think of the computer system as a layered model , the System Software is the interface between the hardware and user applications.

Application Software :-

It is Software created for a Specific purpose , used by end users. It can be called an application or simply an app.

Examples :-

Word processor , accounting application , a web browser , an email client , Media player etc.

and,

Open Source Software :-

Software (OSS) is a type of computer software in which source code is released under a license in which the copyright holder grants users the rights to study, change, and distribute the software to anyone and for any purpose.

The Linux Operating System (OS) is the best-known examples of Open Source Software technology.

Q.6.a) Create a file in Ms-word to insert a paragraph about yourself and save it with file name "yourself". Describe all steps involved in it.

Ans → Opening Ms-Word :-

- Click the start icon.
- Then click to All Program.
- Then click Ms office and
- Then click Ms Word.

Now,

Create a file in Microsoft word.

- Click the Microsoft office button / File tab.
- Select New, then new document dialog box appears.
- Select Blank document. It will be highlighted by default.
- A New blank document appears in the word - window.
- Now you can create document about yourself.

Document - I

you know yourself better then anyone else, but writing about yourself can still be tough! When applying for Scholarships or to college, essay prompts can feel so general that they leave us stumped.

Now,

To Save document using Save as command :-

- Click the MS Office button / File tab.
- Select Save as - word document.
- Select the location where you want to save the document using the drop-down menu.
- Enter Name for the document "yourself".
- Click the Save button.

Q.6.b) Write steps regarding followings

► To change the font style :-

- Select the text you want to modify.
- Click on font style box on the Home tab. The font style drop-down menu appears.
- Move your cursor over the various font style.
- Left-click the font style you want to use.
- Then font style will change in the document.

➤ To change the font Size :-

- Select the text you want to modify.
- Click on font Size box in the Font group on the home tab. The font Size drop-down menu appears.
- Move your cursor over the various font Sizes.
- Left-click on font Size you want to use.
- Then it will change font Size in your document.

> To change the font color :-

- Select the text you want to modify.
- Click on the font color box on the Home tab. The font color menu appears.
- Move your cursor over the various font colors.
- Left-click the font color you want to use.
- Then font color will change in the document.

➤ To highlight (in yellow) the line that reads "need to get RMS's address". :-

- Select the text.
- Click on the Highlight color in font group on the home tab.
- Various colors will appears.
- Move your cursor over the various colors.
- Click on color you want to use.
- Then text highlight color will change in the document.

Q. 7. Create a file in Ms-word for the following document and Save it with file name 'ms-word'. Describe all steps involved in it.

MS WORD

Ms Word is a widely used commercial word-processor developed by Microsoft.

Ms word is application Software . which is Capable of

- Creating
- editing
- Saving, and
- printing any type of document

Ans → Opening MS Word

- Click the start icon
- Then point to all program.
- Then click Microsoft office and
- Then click Microsoft word.

Now,

Create a file in ms word

- Click the Microsoft office button / File tab.
- Select New , then new document dialog box appears.
- A New blank document appears in the word - window.
- Now you can Create document about yourself . 'Ms- word' .

Document - 1

Ms word

MS word is a widely used commercial word processor developed by Microsoft.

Ms word is application software, which is capable of

- Creating
 - editing
 - Saving
 - printing any type of document
- Finally Save document .

Now,

To save document using Save as Command

- Click the MS office button / File tab.
- Select Save as - word document
- Select the location where you want to save the document using the drop-down menu.
- Enter name for the document 'MS word'.
- Click the Save button.

Q. 8. Create a file in MS-word for the following document and save it with file name 'equations'. Describe all steps involved in it.

Equations

$$x_2 + y_5 = 30$$

$$z^3 + \theta^4 = 50$$

$$A_2 + B^8 = x_2 + y^8$$

Ans →

Opening MS word

- Click the start icon.
- Then point to all program.
- Then click Microsoft office and
- Then click MS word.

Now,

Create a file in Microsoft word.

- Click the Microsoft office button / File tab.
- Select New. Then new document dialog box appears.
- Select blank document. It will be highlighted by default.
- A New blank document appears in the word window.
- Now you can create document inserting equations.

Document - 1

$$x_2 + y_5 = 30$$

$$z^3 + \theta^4 = 50$$

$$A_2 + B^8 = x_2 + y^8$$

Finally Save Document.

Now,

To Save document using Save as Command:-

- Click the MS office button / File tab.
- Select Save as - word document.
- Select the location where you want to save the document using the drop-down menu.
- Enter name for the document 'equations'.
- Click the Save button.

Q.9. Create a file in Ms-word that convert existing highlight text to table as shown below and Save it as file name 'text_to_table'. Describe all steps involved in it.

Select that you want to convert.

Select Insert tab.

click on Table command. A dialog box appears.

Click on Convert Text to Table, a new dialog box appears.

Click on OK Finally Selected text convert in a table.



Select the the text you want to convert.	Select the Insert tab.
Click on Table command. A dialog box appears.	Click on convert Text to Table, a new dialog box appears.
here Set number of columns.	click on OK Finally Selected text convert in a table.

Ans → Opening MS word :-

- click the start icon.
- click then point to All program.
- Then click Microsoft office and
- Then click Microsoft word.

Now,

Create a file in MS word :-

- Click the Microsoft office button / File tab.
- Select New, then new document dialog box appears.
- Select blank document . It will be highlighted by default.

- A New blank document appears in the word - window.
- Now you can create document by inserting text.
- Finally Save document.
Now,

To Convert existing text to a table :-

- Select the text you want to convert.
- Select the Insert tab.
- click on table command. A dialog box appears.
- click on convert text to table, a new dialog box appears.
- Here Set number of columns.
- Click on OK.
- Finally Selected text convert in a table.

Now, To Save workbook using Save As Command :-

- o click the ms office button / File tab.
- o Select Save as
- o Select the location where you want to Save.
- o Enter a name for the workbook.
- o Click the Save button.

Q.10. Create a file in Ms-word to insert a table in the document . Describe all steps involved in it.

Ans → Opening MS word :-

- click the start icon.
- Click the point to All Program.
- Then click MC office and
- Then click Microsoft word.

Now ,

Create a file in MS word :-

- click the Microsoft office button / File tab .
- Select New, then new document dialog box appears .
- Select blank document . It will be highlighted by default .
- A New blank document appears in the word - window .
- Now you can Create document by inserting text .
- Finally Save document .

Now ,

To Insert a Table :-

- Place your insertion point in the document where you want to insert table .
- Select the Insert tab .
- click the table command .
- Drag your mouse over the diagram Squares to Select the number of column and rows in the table .

- Left - click your mouse , and the table appears in the document .
- Enter text into the table .

Q.11. Create a following worksheet in MS-excel and Save it with name 'book1'.

Ans → Starting a Excel :-

- Click on the start button on the Taskbar at the bottom left corner of the Screen.
- Highlight the All program item. The program menu will open.
- Select Microsoft office from the list of Programs.
- Click on MS EXCEL.

Now,

To Create a New blank worksheet :-

- Left-click the Microsoft office button or file tab.
- Select New. The new worksheet dialog box appears , and blank worksheet is highlighted by default.
- Click on this
- A New blank worksheet appears in the window.

Now,

To Save worksheet using Save as command:

- Click the Microsoft Office button or File tab.
- Select Save As.
- Select the location where you want to save.
- Enter a name for the worksheet.
- Click the Save button.

BOOK 1

	A	B	C
1	Roll no	Name	Marks
2	1	n1	60
3	2	n2	70
4	3	n3	80
5	4	n4	90
6	5	n5	40
7	6	n6	50
8	7	n7	77
9	8	n8	44
10	9	n9	88
11	10	n10	55
12			
13			
14			
15			

◀ ▶ ⏪ ⏩ Student / sheet 2 / Sheet 3 / Sheet

Q. 12. Calculate the following things of a range (C2:C11) of data in the worksheet created in question no 10.

Ans → ➤ the sum of the marks using AutoSum in a range of cells (C2:C11)

$$\begin{aligned} &= \text{SUM (cell range)} \\ &= \text{SUM (C2:C11)} \\ &= 654 \end{aligned}$$

➤ average of the marks in a range of cell (C2:C11)

$$\begin{aligned} &= \text{Average (cell range)} \\ &= \text{Average (C2:C11)} \\ &= 65.4 \end{aligned}$$

➤ highest marks in a range of cells (C2:C11)

$$\begin{aligned} &= \text{Max (cell range)} \\ &= \text{Max (C2:C11)} \\ &= 90 \end{aligned}$$

➤ minimum marks in a range of cell (C2:C11)

$$\begin{aligned} &= \text{Min (cell range)} \\ &= \text{Min (C2:C11)} \\ &= 40 \end{aligned}$$

BOOK1

	A	B	C
1	Roll no	Name	Marks
2	1	n1	60
3	2	n2	70
4.	3	n3	80
5	4	n4	90
6	5	n5	40
7	6	n6	50
8	7	n7	77
9	8	n8	44
10	9	n9	88
11	10	n10	55
12			
13			
14			
15			
16			

Q.13:a) Describe various steps involved in the following.

➤ To modify column width of a worksheet :-

Ans →

- Position the cursor over the column line in the column heading.
- And a double arrow will appear.
- Left-click the mouse, then drag the cursor to the right to increase the column width or to the left to decrease the column width.
- Release the mouse button.

➤ To modify the row height of a worksheet :-

- Position the cursor over the row line you want to modify, and a double arrow will appears.
- Left-click the mouse, then drag the cursor upward to increase the row height.

➤ To delete rows and columns of a worksheet :-

- Select the row or column you want to delete.
- Click the delete command in the cells group on the Home tab.
- Selected column or row deleted.

Q.13 b)

Describe following terms in the worksheet :-

► Absolute reference and relative reference in Formula.

Ans →

- Relative reference : Cell reference in formula automatically adjust to new locations when the formula is Pasted into different Cells. This is called a relative reference.
- Sometimes when you copy and paste a formula you don't want one or more cell references to change.
- An absolute reference solves this problem.
Absolute Reference : Cell reference in a formula always refer to the same cell or cell range. If a formula is copied to a different location, the absolute reference remains the same.
- An absolute reference is designated in the formula by the addition of a dollar sign (\$).

► Cell address :-

- Each rectangle in the worksheet is called a cell. Each cell has a name, or a cell address, based on the column and row where it located. In below diagram name of selected cell is C3 because column head is C and row head is 3.

Q.14.Q) what tools are available to customize our PowerPoint Presentation ?

Ans → Many tools are available to our PowerPoint Presentation :-

1. Home :-

The home tab holds the Cut and Paste features , Font and Paragraph Options , and what you need to add and Organize Slides .

2. Insert :-

Click insert to add Something to a slide , This includes pictures , shapes , charts , Link , text boxes , video and more .

3. Design :-

On the design tab , you can add a them or Color Scheme , or format the Slide background .

4. Transitions :-

Set up how your slides change from one to the next on the transitions tab . Find a gallery of the possible transitions in the to this slide group click more at the slide of the gallery to see a of them .

5. Animations :-

Use the Animations tab to choreograph the movement of things on your slides. Note that you can see many possible animations in the gallery in the animation group, and see more of them by clicking More.

6. Slide Show :-

On the slide show tab, set up the way that you want to show your presentation to others.

7. Review :-

The Review tab lets you add common run spell-check, or compare one presentation with another (such as an earlier version).

8. View :-

Views allows you to look at your presentation in different ways, depending where you are in the creation or delivery process.

9. File :-

At one end of the ribbon is the File tab, which you use the behind the scenes stuff you do with a file, such as opening, saving, sharing, exporting, printing and managing your presentation.

Click the File tab to open a new view called the Backstage.

Click from the list on the side to do what you want to do; for example, click print to find the Options and Setting for Printing your presentation. Click Back to return to the presentation that you were working on.

10. Tools tabs :-

When you click some parts of your slides, such as pictures, shapes, SmartArt or text boxes, you might see a colorful new tab appears.

In the example above, the Drawing Tools tab appears when you click a shape or text box. When you click a picture, the Picture Tools tab appear. Other such tabs include SmartArt Tools, Chart Tools, Table Tools and Video Tools. These Tabs disappear or change when you click somethings else in your presentation.

Q.14.b) Write the steps for the following action for Creation of Power Point Presentation

Ans → ➤ Open a Blank Presentation :-

- Click on start.
- Select MS office PowerPoint option.
- Double click on it.

Again,

- Select the file tab to go to Backstage view
- Select New, on the left slide of the window.
- Then, Click Blank Presentation.

➤ Save the presentation as Lab1.pptx

- Click on the file tab to launch the Backstage view and Select Save.
- In the Save as dialog, type in the file name and click "Save".
- The default file format is '.pptx'. If you want to save the file with a different name, choose one of the file type from the "Save as type" dropdown list.

➤ Add a Title to the first slide: the name of your college :-

- Select the file tab to go to Backstage view.
- Select new on the left slide of the window.

- Then, click blank Presentation, additional information on how slide can be used.
- Then, open the first slide.
- Click the title bar.
- Type the name of my college "KSRI college Saranjan".

> Type your first name and last name in the Subtitle Section :-

- Select the file tab to go to backstage view
- Select new, on the left of the window.
- Additional information on how the template can be used.
- Click on Blank presentation.
- Then, Open the Subtitle Section.
- Type the first name in Subtitle "Srishti" and type the last name in the Subtitle Section "kumari".

- To insert a new slide that contains a "Title and content" Slide layout, click the "Home tab" in the ribbon.
- Then, click the "New slide" button in the Sliders button group.
- To insert a new slide and choose the slide layout. Click the drop-down part of this button.

- o Doing this then shows a drop-down menu that displays the different slide layouts you can apply.
- o Then click on of the slide layouts now in the drop-down menu to create a new slide with that layout.

Q.15. Write steps for creation of a set of PowerPoint slides that demonstrates your skill to use the tools PowerPoint. It should include the following things

Ans → ➤ Title Slide & bullet list :-

- Start Microsoft PowerPoint.
- Open arbitrary existing PowerPoint Presentation.
- Click the new slide button on the Formatting toolbar. The slide layout task pane appears as shown in the above figure. The slide layout task pane lets you select from numerous layouts that determine what you want to appear on the new slide. We want to add a Bulleted List slide.
- Click the bulleted list layout, as shown in the above figure. A new slide appears after the current slide in your presentation as shown in the figure. Notice there are two placeholder on this slide: one for the title of the slide and the other for the bulleted list. To add text to a placeholder, all you have to do is click and type.
- Click the title placeholder (where it says "Click to add title"). An insertion point (a) appears in the placeholder, indicating that

You can add text to the placeholder.

- Type Some text. Now let's add some text to the bulleted list Placeholder.
- Click the bulleted list Placeholder and type Something and Press <Enter>. PowerPoint adds another bullet to the list when you Press the <Enter> key.
- Repeat the following three times: Type Some text and Press <Enter>.
- Click the slide layout Panes close button. If you are not planning to use the slide layout pane again for a while, it is usually a good idea to close it so you can have extra viewing space for your presentation.

➤ Inserting Excel Sheet :-

- In PowerPoint, on the insert tab, click or tap Object.
- In the insert object dialog box, Select Create from file.
- Click or tap Browse, and in the Browse box, Find the excel workbook with the data you want to insert and link to.

- Before you close the insert object box, Select Link, and click OK.

➤ Clip art and text :-

- Click in the slide where you want insert a clip art file.
- On the Insert tab, in the Images group, click on Line Pictures. (In PowerPoint 2007/2010, this option is called Clip Art.)
- In the Insert Pictures dialog box (Clip Art task pane in PowerPoint 2007/2010), enter your search terms in the Bing.com field and Press.
- Your search results load in the task pane.
- Locate the clip art you want to insert in your slide and double-click on or click the item and select insert.

► Slide show effects :-

- Notice that there is a separate area to the left on the screen where your first slide is located.
- The easiest way to add a slide is to right-click the area under where your first slide is located and select 'New slide'. A new slide will appear.

Part - 2

Q. 16. What is the difference between Machine Language and High Level Language?

Ans →

Machine Language

- (i) A computer programming language consisting of binary instructions which a computer can respond to directly.
- (ii) Sometimes, it is referred to as machine code or object code. Machine language is a collection of binary digits or bits that the computer understands.
- (iii) A computer cannot directly understand the programming languages used to create computer programs. So the program code must be compiled. Example :- 01001000, 01100101, 01101100 etc.

High - Level Language

- (i) A high-level language is a programming language that enables development of a program in a much more user-friendly programming context.
- (ii) High-level language are grouped in two categories based on execution model compiled or interpreted languages.
- (iii) This language is a programming language with strong abstraction about the details of the computer in contrast to low-level programming language (Assembly language). Example :- C, C++, Java.

Document - 1

you know yourself better than anyone else, but writing about yourself can still be tough. When applying for Scholarships or to college, essay prompts can feel so general that they leave us stumped.

Q.17. Discuss about different data types of C Programming Language.

Ans → Data type of C :-

Each Variable in C has an associated data type. Each data type requires different amounts of memory and has some specific operations which can be performed over it. Let's briefly describe the one by one: Following are the examples of some very common data types used in C:

- char : The most basic data type in C. It stores a single character and requires a single byte of memory in almost all compilers.
- int : As the name suggests, an int variable is used to store an integer.
- float : It is used to store decimal numbers (numbers with floating point value).
- double : It is used to store decimal numbers (numbers with floating point value) but its range of values is high in comparison to float.

Important Data type In C with range :-

Type	keyword	Value range which can be represented by this data type
Character	char	-128 to 127 or 0 to 255
Number	int	-32,768 to 32,767 OR 2,147,483,648 to 147,483,647
Small Number	short	-32,768 to 32,767
long Number	long	-2,147,483,648 to 2,147,483,647
Decimal Number	float	1.2 E - 38 to 3.4 E + 38 till 6 decimal places.

These data types are called primitive data types and we can use these data types to build more complex data types, which are called user-defined data type, for example a string will be a sequence of characters.

Q.18. Find the output of the following expressions

a) $x = 20/5 * 2 + 30 - 5$

Ans →

The operation is division
first: $20/5 = 4$

Formula becomes

$$4 * 2 + 30 - 5$$

Because the multiplication comes before the addition: $4 * 2 = 8$

Formula becomes

$$8 + 30 - 5$$

Next the addition takes place before the subtraction: $8 + 30 = 38$

Formula becomes

$$38 - 5$$

Finally $38 - 5 = 33$

The final answer is 33

b) $y = 30 - (40/10 + 6) + 10$

→ Perform the division operation in parenthesis first: $40/10 = 4$

Formula becomes

$$30 - (4 + 6) + 10$$

→ Next, Perform the addition in parenthesis first: $4 + 6 = 10$

Formula becomes

$$30 - 10 + 10$$

→ Next the addition takes place before the Subtraction:

$$30 + 10 = 40$$

Formula becomes

$$40 - 10$$

→ Finally $40 - 10 = 30$

The final answer is 30

c) $Z = 40 * 2 / 10 - 2 + 10$

→ The operation is division

first: $40 * 2 / 10$

$$= 8 / 10$$

$$= 8$$

Formula becomes

$$8 - 2 + 10$$

→ Next the addition take place before the subtraction:

$$8 + 10 = 18$$

Formula becomes

$$18 - 2$$

→ Finally $18 - 2 = 16$

The final answer is 16

Q.19. Describe the Syntax of the following statements

a) if - else statement :-

If Statement can be followed by an optional else block of statements , which executed : when the Boolean expression is false .

Syntax :-

```
if (expression)
{
```

 true Block of statements ;

```
}
```

```
else
{
```

 else Block of statements ;

```
}
```

b) For loop :-

For Loop is Similar to while ,

Basic Syntax of for loop is as follows :

```
for (expression 1; expression 2; expression 3)
```

```
{
```

 Block of Statements ;

```
}
```

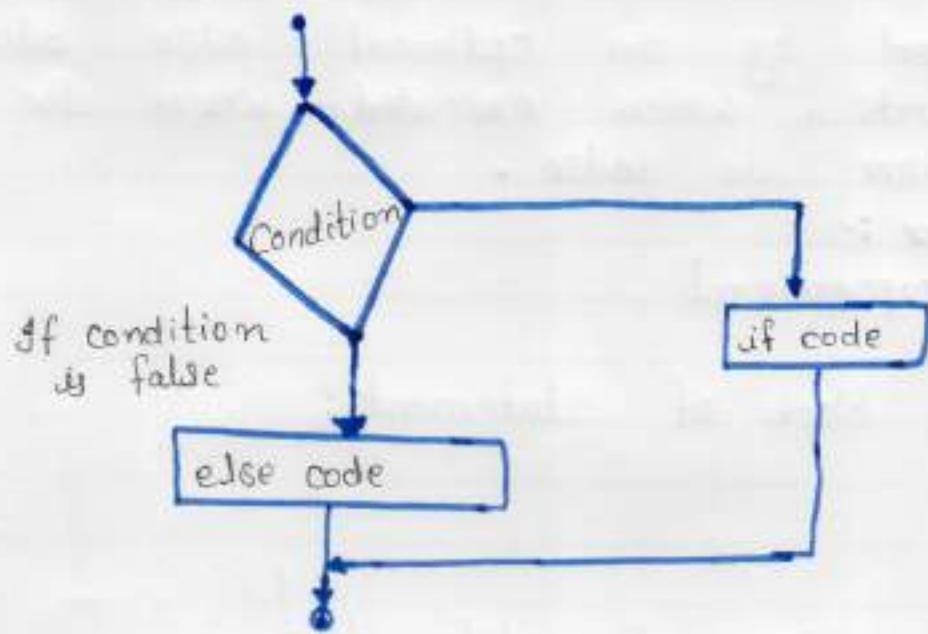
In the above Syntax :

expression 1 - initializes variables .

expression 2 - Conditional expression , as long as this condition is true , loop will keep executing .

expression 3 - Expression 3 is the modifier which will increase or decrease the value of the Variable .

a)



c) while loop :-

Basic Syntax of while loop is as follows:

while (condition)

Single Statement;

OR,

while (condition)
{

block of statements;

}

The above code can be represented in the form of a flow diagram as shown above

d) do - while loop :-

Basic Syntax of do-while loop is as follows:

do
{

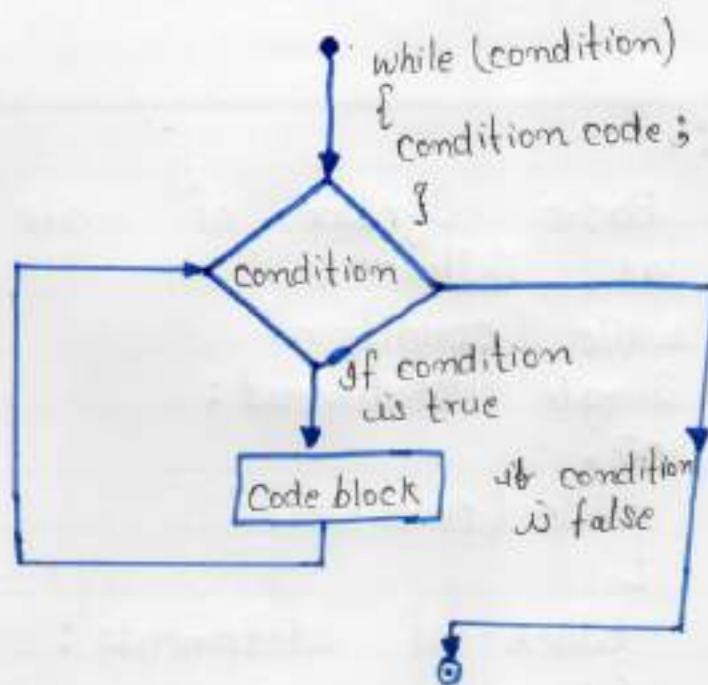
Single Statement

or

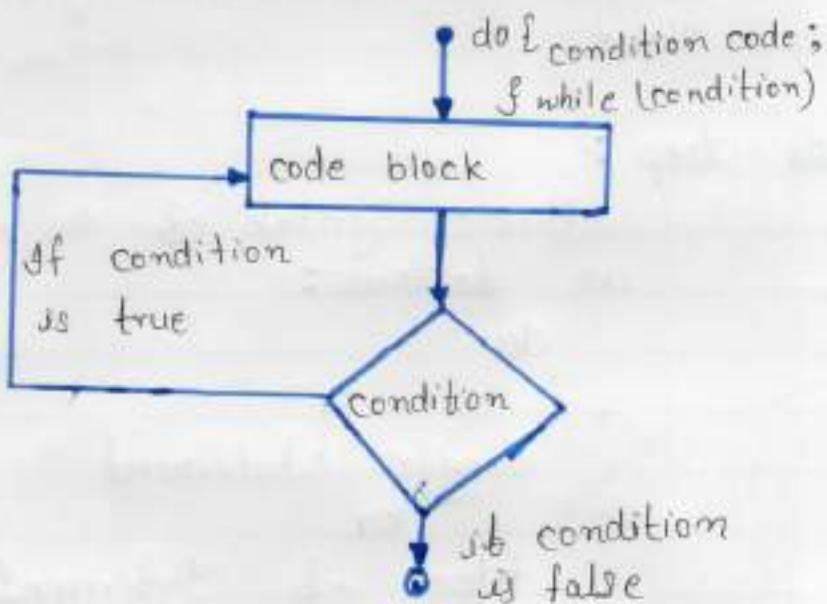
block of statements
{ while (condition); }

This code can be represented in the form of a below digram as shown below.

9)



d)



Q. 20. Find the Output of the following program Segments

a)

```
#include <stdio.h>
int main()
{
    int i;
    for(i=1; i<2; i++)
    {
        printf("IMS Ghaziabad\n");
    }
}
```

b)

```
#include <stdio.h>
int main()
{
    int i = 1
    while (i<=2)
    {
        printf("IMS Ghaziabad\n");
        i = i + 1;
    }
}
```

c)

```
#include <stdio.h>
void main()
{
    int a=10, b=100;
    if(a>b)
        printf("Largest number
               is %d\n",a);
    else
        printf("Largest number
               is %d\n",b);
}
```

Ans →

a)

```
#include <stdio.h>
int main()
{
    int i;
    for(i=1; i<2; i++)
    {
        printf("IMS Ghaziabad\n");
    }
}
```

b)

```
#include <stdio.h>
int main()
{
    int i=1;
    while (i<=2)
    {
        printf("IMS Ghaziabad\n");
        i = i + 1;
    }
}
```

c)

```
#include <stdio.h>
void main()
{
    int a=10, b=100;
    if(b > a)
        printf("Largest number
               is %d\n",b);
    else
        printf("Largest number
               is %d\n",a);
}
```

Output

IMS Ghaziabad

Output

IMS Ghaziabad
IMS Ghaziabad

Output

Largest number is 100