

CCA - 701 : Fundamentals of IT & Programming

Assignment - I

Done by :-

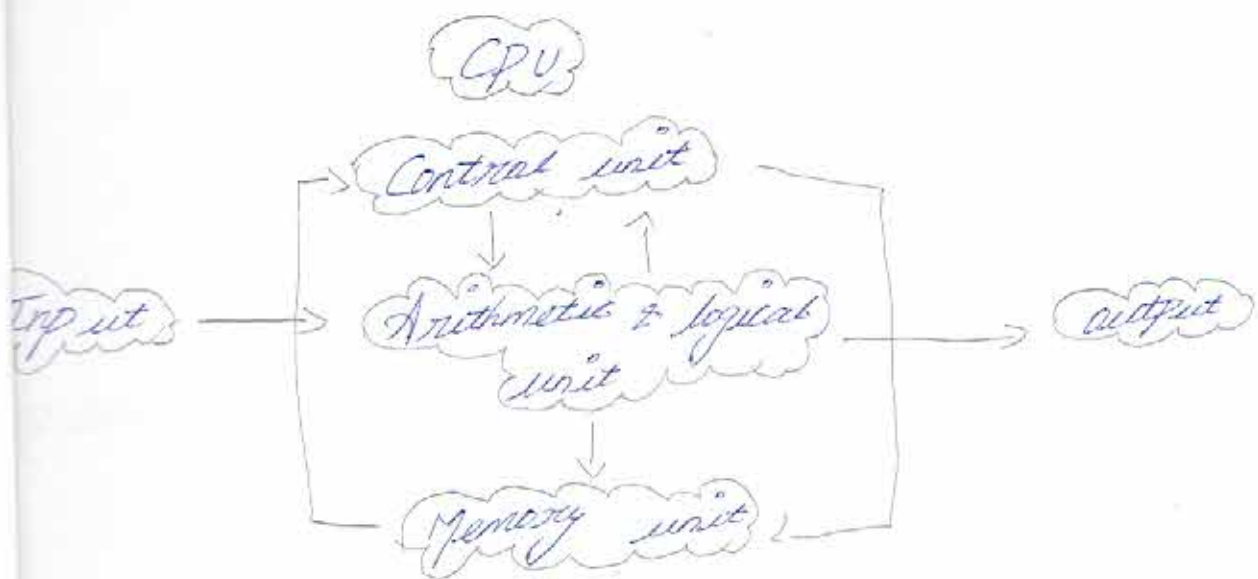
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CCA - 101 : Fundamentals of IT & Programming

Assignment - I

Four fundamental parts of computer & diagram.

- * Memory unit
- * Control unit
- * Arithmetic unit
- * logical unit



Classification of computers based on size and capacity:

There are four types in the classifications of the computer by size:

- * Super Computer
- * Mainframe Computer
- * Mini Computer
- * Micro Computer

3. What is the meaning of Computer generation? How many computer generations are defined? what technologies are used?

Generation in Computer terminology is a change in technology a computer was being used.

- * First Generation Computer - (1942 - 1955)
- * Second Generation Computer - (1955 - 1964)
- * Third Generation Computer - (1964 - 1975)
- * Fourth Generation Computer - (1975 - 1980)
- * Fifth Generation Computer (Present and Beyond)

Technologies:

- 1942 - 1955 First Generation Vacuum Tubes
- 1955 - 1964 Second Generation Transistors
- 1964 - 1975 Third Generation Integrated Circuits
- 1975 - 1980 Fourth Generation Microprocessors

4. D/B Volatile & Non-Volatile Memory.

Volatile Memory	Non-Volatile Memory
Computer memory that requires constant power to maintain the stored information	Computer memory that can store information even there is no constant power.
Holds data temporary	Holds data permanently
Faster	Slower

Distinguish between System Software application Software and Open Source Software on the basis of their features?

System Software:

Type of Computer program that is designed to run a Computer's hardware and application programs

Features:

- * High Speed
- * Hard to Manipulate
- * low-level Computer language
- * Versatile

Application Software:

Computer Software developed specifically to aid a user to perform any specific tasks.

Features:

- * Easy to Design
- * Bigger in Size
- * written in a high-level programming language.

Open Source Software:

Code that is designed to be publicly accessible

Features:

- * Integrity
- * Innovation
- * Fine thoughts
- * Freedom

6.6) To change the font style:

To select all text in a word document, press $(Ctrl) + A$ open the font dialog box & select the font style.

To change the font size:

To select all text in a word document, press $(Ctrl) + A$ open the font dialog box & select the font size.

To change the font color:

Select the text that you want to change on the home tab in the font group. Choose the arrow next to font color and then select a color.

To highlight (in yellow) the line that needs need to get 1175

address:

To highlight a single line. Move your cursor to the start of the line you want to highlight. Hold down a Shift key on your keyboard with the Shift key held, down press the End key. The line is highlighted.

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 and type of document

Opening MS Word

- * Click the start icon
- * Then point to all programs
- * Then click Microsoft Office and
- * Then click Microsoft Word.

Creating:

- * Open word

In the search for online templates box, enter a search word

like letter, resume

Click a template to see a preview

Select Create

Editing :

In the upper right corner. Select Edit Document > Edit

Saving :-

Click file > Save. Pic or browse to a folder. Type a name for your document in the file name box and click Save.

Printing any type of document

* Select file > Print

* To preview each page, select the forward and backward arrows at the bottom of the page.

* If the text is too small to read use the Zoom slider at the bottom of the page to enlarge it

* Choose the number of copies, and any other options you want and select the print button.

8) Create a file in MS- Word for the following document and save it with file name, Equation. Describe all steps involved in it.

Equations :

$$x_2 + y_5 = 30$$

$$z^3 + a^4 = 50$$

$$A_2 + B^8 = x_2 + y_8$$

Select Insert > Equation or press $\text{Alt} + =$ to use it in formula. Select Design > Equation.

* Click File > Save. Pick or browse to a folder type a file name, 'Equations' in the file name box, and click Save.

Create a file in MS-Word that convert existing highlight to table as shown below and save it as file name 'text -

Table' Describe all steps involved on it.

* 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

Set number of Columns

Click on OK Finally selected text convert in 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
Set number of Columns	Click on OK finally selected text Convert in a table.

* Select the text that you want to convert and then click Insert > Table > Convert text to table. In the Convert text to table box, Choose the options you want under Table Size, Make sure the number match the number of Columns and Rows you want.

10. Create a file in MS- Word to insert a table in the document. Describe all steps involved in it?

* Place your insertion point in the document where you want the table to appear

* Select The insert tab

* Click the Table Command

* Drag your mouse over the diagram squares to select the number of columns and rows in the table.

11. Create a following Worksheet in MS- Word and save it with name "book1"

A	B	C
Roll NO	NAME	MARKS.
1	n ₁	60
2	n ₂	70
3	n ₃	80
4	n ₄	90
5	n ₅	40
6	n ₆	50
7	n ₇	77
8	n ₈	44
9	n ₉	88
10	n ₁₀	55

* Click file > Save As.

* under save As, Pick the place where you want to save

* Click Browse to find the location you want in your current folder.

In the file name box, and give name 'book1' in Excel sheet.

Click Save.

Calculate the following things of a range (A2 : C11) of data the worksheet created in question no 10.

A	B	C
REG NO	NAME	MARKS
1	n ₁	60
2	n ₂	70
3	n ₃	80
4	n ₄	90
5	n ₅	77
6	n ₆	40
7	n ₇	44
8	n ₈	50
9	n ₉	88
10	n ₁₀	55

Sum of the Marks using Autosum in a range of cells A2 : C11)

654

average of the Marks in a range of cells A2 : C11)

65.4

Highest marks in a range of cells ($C_2 : C_1$)

90

Minimum marks in a range of cells ($C_2 : C_1$)

40

PART-2

Different data types of C programming language:

The data type in C defines the amount of storage allocated to variable the values that they can accept and the operation that can be performed on those variables.

C is rich in data types.

There are three classes of data-type.

- * Primary data type
- * Derived Data type
- * user defined Data type

Different data types in C language:

- * Floating-Point
- * Integer
- * Double
- * Character

Floating-Point:-

A data type which is used to represent the following point number.

Integer:-

It is represented by the 'int' keyword and it can be with signed or unsigned.

Double :

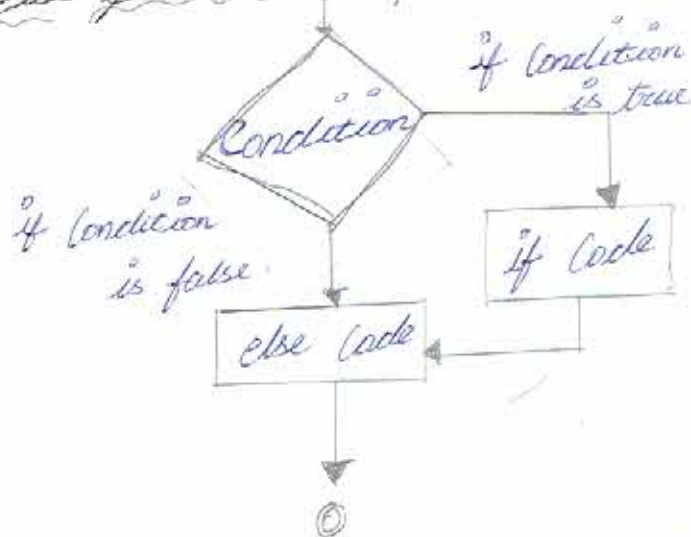
It helps in storing high-precision parts of floating point numbers or data in the computer memory.

Character :

Two types one is Signed data type and second one is unsigned data type. Both data type occupy only one byte of memory.

19) Describe the Syntax of the following Expressions :

a) If - Else Statement :



If the Boolean Expression evaluates to true, then the 'if' block will be executed, otherwise, the 'else' block will be executed.

b) for loop :

for (Expression 1; Expression 2; Expression 3)

{

Single Statement