ASSIGNMENT 1

1. Why do computers understand only binary languages?

ANS:- Computers use binary to store data. Not only because it's a reliable way of storing the data, but computers only understand 1s and 0s – binary. A computer's main memory consists of transistors that switch between high and low voltage levels – sometimes 5V, sometimes 0.

2. What is the full form of IDE?

ANS:- The full form of IDE is 'INTEGRATED DEVELOPMET ENVIROMENT' .

3. What is the difference between a code editor and a text editor?

ANS:-

Code Editor	Text Editor
a. Code editor is a developer's tool designed to edit the source code of computer programs.	a. A text editor is simply a computer program and a tool used for editing plain text without all the bells and whistles
b. It is a text editor with powerful built-in features and specialized functionalities to simplify and accelerate code editing process.	b) What text editors simply do is take some input, change it and produce some output.
c. Key features include syntax highlighting, printing, Multiview, and preview window.	c) Text editors require fewer hardware resources run, meaning less disk space, memory, and processing power.

4. What are the steps to develop software using the C language?

ANS:- Following steps are required to develop software using C language:-

a. At first download any IDE (eg- Code Blocks, Dev, VS Code) .
b. Create a file .
c. Open that file with you IDE.
d. Write your program in IDE.
e. Save and run your program.
f. Now your program is ready single click on .exe file .

5.(a). What is the latest version of C language?

ANS. C17 is the latest version of C language.

5.(b). Who developed C language?

ANS:- C language is developed by "DENNIS RITCHIE" .

5.(c). What is the difference between System and Application Software?

ANS:-

System Software	Application Software
a). System Software are mainly designed for managing system resources.	a). Application Software are designed to accomplish tasks for specific purpose.

b). Programming of system software is complex.	b). Programming of application software is comparatively easy.
c). A computer cannot run without system software.	c). A computer can easily run without application software.

5.(d). How to convert a number from a decimal number system to a binary number system?

ANS:- Following are the steps to convert decimal to binary:

a. Write down the number.
b. Divide it by 2 and note the reminder.
c. Repeat the same process till we get 0 as the quotient.
d. Write the values of all the remainders starting from the bottom to the top.
e. Example -- dividend reminder

5/2 1

2/2 0

1/2 1

5 is written in binary as 101