**ASSIGNMENT - 1**

Q1) Why do computers understand only binary language?

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.

Q2) What is the full form of IDE?

Ans : Integrated development environment

Q3) What is the difference between a text editor and a code editor?

Ans : A text editor simply allows you to write and edit text and it does not have anything built-in to help you to code whereas a code editor is also a text editor but it also helps you write code.

Q4) What are the steps to develop software using the C language?

Ans: Step 1: Download Dev/C++

Step 2: Install Dev/C++

Step 3: Create First Project

Step 4: Write Your Program

Step 5: Save and Compile Code

Step 6: Run Your Code

Step 7: More Resources

Q5) a) What is the latest version of C Language?

Ans : C17. Published in June 2018 as ISO/IEC 9899:2018, C17 is the current standard for the C programming language

1. Who developed C Language?

Ans : Dennis Ritchie

1. What is the difference between System and Application Software?

Ans : A System Software acts as an interface between the system and the application software. The various Operating systems are the best example as it allows the user to download and work with various applications on their device. On the other hand, Application Software is designed for users.

1. How to convert a number from a decimal number system to a binary number system?

Ans : Steps :

1. Write down the number.
2. Divide it by 2 and note the remainder.
3. Divide the quotient obtained by 2 and note the remainder.
4. Repeat the same process till we get 0 as the quotient.
5. Write the values of all the remainders starting from the bottom to the top.