Assignment 1(C Language)

1. Why do computers understand only binary language?

Ans: Computers are made of hardware such as RAM, ROM, CPU, HARD DISK etc. and hardware understands only electrical signals. For example, RAM is made of many capacitors in which there may be only two conditions – the capacitor is holding charge and it is not holding any charge. These two conditions are named as 1 and 0 respectively for better understanding. These 0 and 1 is called binary. That is why it is called that computers understand only binary language.

2. What is the full form of IDE?

Ans: The full form of IDE is Integrated Development Environment.

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

Ans: A text editor simply allows us to write and edit text and it does not have anything built-in to help in codding whereas a code editor is also a text editor but it has a built-in environment to help in codding and running the code.

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

Ans: There are two steps to develop software using C language —

     i.   Create a source file.
    ii.   Build a software.

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

Ans: The latest version of C language is C17.

5.b) What is the difference between system and application software?

Ans: The system software is used for operating computer hardware. It also acts as a platform to run application software. On the other hand, Application software is installed according to the user's requirements to perform a specific task.

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

Ans:

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.