ASSIGNMENT - 1

Q#1: Why do computers understand only binary language?

Ans:

Internal of the computer is electronic chips, which are made of all electronic devices like diode, transistor, Flip-Flop etc. These devices respond to ON & OFF status of power supply.

So, we take only two digits 0 & 1 to indicate the status of power supply

Q#2:

What is full form of IDE?

A: Integrated Development Environment

Q#3:

Difference b/w text & code editor?

A: A text editor is a program where you can type text into an editor, and manipulate the text.

However, an Code editor has a text editor, usually a debugger, a compiler and many other tools that may be useful for programming

Q#4: Steps to develop software using the 'C' language?

Ans :-

1. Create a New Source File
2. Write Program
3. Save And Compile code
4. Run Code
5. Software is created

Q#5) a) Latest version of C language?

Ans: C17 is the informal name of ISO/IEC 9899:2018, the most recent standard for the C programming language, Prepared in 2017 and published in June 2018.

b) Who developed C language?

Ans: It was developed by Dennic M.Ritchie at AT & T Bell Laboratories.

c) Difference b/w System & Application Software?

Key	System Software.	Application Software
Definition	It is the interface b/w application software and system.	It runs as per user request. It runs on the platform which is provided by system software
Development - Language	Generally, It developed in low level language, which is more compatible with the system hardware in order to interact with.	It, developed in high level language, as they are developed for some specific purpose. L
Usage	It used for operating computer hardware.	It used by user to perform specific task.
Dependency	It can run independent-ly. It provides platform for running application software	It can't run independently, They can't run without the presence of system software
Installation	It installed on the computer when OS is installed.	It installed according to user's requirements
Examples	Compiler, assembler, debugger, driver etc.	Word Processor, web browser, media player etc.

d) Convert decimal no. system to binary no. system?

Ans: We convert a decimal number by: dividing the given number repeatedly by 2 until we get 0 as the quotient. Then, we write the remainder in the reverse order to get the binary value of the given decimal no.

Example:

Decimal number = 9

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 2 | 9
 2 | 4  - 1   ↑
 2 | 2  - 0
   | 1  - 0
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Binary equivalent of 9 is = 1001