1.Why do computer understand only binary language?

Ans. Computer is made of hardware, and the hardware consist or made of capasitors. Capasitors work as charging and discharging, as all the information is stored in capasitor, so the information is stored or the capasitor is charged is represented as an 1 and dischargement is represented as 0. So a computer made of capasitor(mainly) understand binary only.

2.What is IDE?

Ans. IDE stands for **Integrated Development Environment**. It is developing environment meant for programmers to develop a program or build a program. As a developing environment it provides debugging tools, build tools & code editor.

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

Ans. A developer can write a program in any language(programming language).

A text editor provides only an environment where source code can be written as plain text file. It provides no debugging tool or building tool for developer to write the source code and generate no executable file.

Whereas a code editor is a simple environment where you can develop a source code with code editor, debugging tool, & build tool. It provides compiler or interpreter(as per the programming language used). Different code editor supports different language and provides co-related library and pre-processors.

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

Ans. The steps contains:

* Write the source code using C language.
* Build the program using build tools which consist pre-processor,compiler and linker.
* Generate an executable file.

5.

a)What is latest version of C language?

Ans: The latest version of C is C17 which is nothing but developed version of C11. In C17 some bugs are fixed from C11.

b)Who developed C language?

Ans: In 1972 Dennis Ritchie developed C language.

c)What is difference between system and application software?

Ans: System software is the type of software that is interface between application software and system.Low-level language is used to write these software.

Whereas, application softwares are some high-level language which provides functionality as per user requirements.

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

Ans: To convert a decimal number to binary :

1. First we represent the decimal number as the power of 2’s.

Ex. If the the is within 1-15,

8 4 2 1

1 0 0 0 1

2 0 0 1 0

3 0 0 1 1

14 1 1 1 0

1. If it is more than 15 we represent it in the same way as per the above method but we just add the next power of 2 which is 16, as the range expands.