

Assignment → 1

Q① → why do computers understand only binary language?

Ans → Because computers have many different types of hardware. And to perform any work through these hardware, we need a program (software) to instruct these hardware. Since, computer is a machine and doesn't understand any natural language but it understands any information "or" instruction in the form of code. These informations are more easier to express in the combination of two state i.e. ('0' and '1'). These '0' and '1' represent the two states in different hardware in different - different ways.

Q② → what is the full-form form of IDE?

Ans → IDE :- "Integrated Development Environment".

e.g. DevC++, Codeblocks etc.

Q③ → what is the difference between a text editor and a code editor?

Ans → Text editor

- ① It is a normal software to write anything. e.g. Notepad.
- ② It can't determine any error in program.
- ③ It doesn't provide any meaningful facility to a programmer.

code editor

- ① It is the part of an IDE to provide an interface for writing a program.
- ② It can determine errors and showing the text elements by different colours.
- ③ It provides many facilities and make the programmer to feel ease of development.

Q④ → what are the steps to develop software using C-language?

Ans → Step ①:- write a program in C-language.

Step ②:- Build the software with the help of some other software (like pre-processor, compiler, linker).

These steps are performed on an "IDE".

Q.5 → Explore by your own

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

Ans → C17 (ISO/IEC 9899:2018),

(b) Who developed C-language?

Ans → Dennis Ritchie.

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

Ans → System Software is used for operating computer hardware.

while Application Software is installed and used by users according to their need.

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

Ans → Represent the decimal number in the form of sum of the power of 2. '1' means presence of 2^n and '0' means absence of 2^n .
e.g. 5 → 00000101 → $2^2 + 2^0 = 4 + 1 = 5$