Assignment → 1

Q→1 why do computers understand only binary language?

Ans:- Because Computer is made up of hardware in which RAM, ROM, processor are work as hardware and it's easy to describe 2 states of hardware as compared to many states

Eg→ In RAM there are small capacitors which hold charge, if charge are present we say 1 value and if not we'll say 0. So to make it easy as for our convinience we made this type of system which understand on only 2 states and work.

Q→2 Full form of IDE.

Ans→ Integrated Development Environment.

Q→3 What are the steps to develop Software using C Language?

Ans:- The steps are :-

1.) first, we make a source file (Source Code written in C languge).

2.) As know, Computer don't know C language so we have to translate c languge to Computer languge . we build the program.

3.) Build Contains preprocessor, Compiler and linker . When these three software work simultaneously . we'll make our (successfully) desired software.

Q→4 What is the difference between
a text editor and a Code editor?

Ans:- In Text editor we can write Code of
any language but it will not
understonable by software as
they don't know what is c languge
coz it's just a text editor.

Code editor is just like text editor
but in this editor software
know that is written i.e code it is
understonable by software so it
highlight the Syntax and words
of programming language and provide
many facilities.

Explore by your own

(a) What is the latest version of C languge?

Ans→ C17.

(b) who developed C languge?
Ans→ Dennis Ritchie.

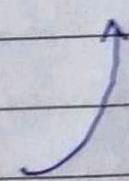**(c)** what is the difference between System and application Software?

Ans:- A System software acts as an interface between the System and the application Software. Eg:. OS, Compiler etc.

Application Software → is designed for users to use any software. Eg:- MS Excel, VLC etc.

4

(d) How to Convert a number from decimal number system to a binary number system?
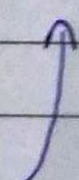
Ans:- (i) $(15)_{10} = (?)_2$

```
2 | 15   R
2 |  7   1
2 |  3   1
2 |  1   1
  |  -   1
```

Binary of 15 is 1111

(ii)
```
2 | 10   R
2 |  5   0
2 |  2   1
2 |  1   0
  |  -   1
```

Binary of 10 is 1010.