

# ASSIGEMENT -1

## 1. Why do computers understand only binary language?

Ans: The humans communicate, give tasks to each other in different languages like English, Hindi etc.

But computers understand only binary language because the computer is an electrical machine /  
Electrical device and binary language is (0, 1) combination and in string-like format

- When the circuit gets current it's represented by 1 and when the circuit does not get the current it's represented by 0
- When the device is connected with high voltage is represented with 1 and when the device is connected with low voltage is represented with 0

## 2. What is the full form of IDE?

Ans: IDE stands for Integrated Development Environment. In simple words, we can say that it provides

an environment to a programmer where they get all the material they need on a single screen

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

Ans:

- In a text editor, we can write normal messages, paragraphs, and in this, we can edit the text and in some text editors, there are options to compress the file
- In a code editor, we can write code and messages, paragraphs, and in the form of comments. In a code editor, it highlights the code syntaxes and also highlights the errors in the code and also provides recommendations for the code lines and there are many more options also.

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

Ans:

- Step 1: open your VS code
  - Step 2: open new file in VS code
  - Step 3: write your code and save it
  - Step 4: after saving, check if the code is working
- From the above steps, you can easily develop a software

## 4. Explore by your own

### 1. What is the latest version of C Language?

Ans: latest version of C language is C17

### 2. Who developed C Language?

Ans: C language was developed by Dennis Ritchie at Bell Laboratories in 1972.

### 3. What is the difference between System and Application Software?

System software	Application software
<ul style="list-style-type: none"><li>• This software are preinstalled software</li><li>• This software can't be uninstalled by user</li><li>• This software help to computer, laptop to manage their internal working like memory management, reboot etc.</li><li>• This software created in Low Level Languages</li><li>• Example: operating system .</li></ul>	<ul style="list-style-type: none"><li>• This software are installed by user according to his needs.</li><li>• This software easy to uninstalled by the user</li><li>• This software are design in High Level Languages</li><li>• This are design for specific work</li><li>• Example: Ms Word, pictures and video editor etc.</li></ul>

### 4. How to convert a number from a decimal number system to a binary number system?

Ans: This is a method to convert decimal numbers into binary numbers

Step1: write numbers like this 1 2 4 8 16 32 64 128 .... This is numbers multiply by 2 each time like this  $1*2=2$ , we get 2 now  $2*2=4$  now we get 4 so  $4*2=8$  so  $8*2=16$  same this process continue till where you Want to convert decimal numbers

Step 2: now see if you want to convert 5 decimal number into decimal number so follow this step

Write number like that 4 2 1 and now see that how we made by from this numbers yes you wright  $4+1=5$  but now see

4	2	1
1	0	1

this is become decimal of 5 (101).

Decimals to binary examples:

20 into binary from: 20= (10100)

16	8	4	2	1
1	0	1	0	0

25 into binary from: 25(11001)

16	8	4	2	1
1	1	0	0	1

**This is the easy way to convert decimal number into binary number**