# C Language Live Community Classes Assignment 1

**Assignment-1**

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

Ans: Computers are machine and their memory is made up of capacitors/ switches, which can remain in only two states i.e. charged (1) or discharged (0). Therefore, computer can understand only binary language.

1. **What is the full form of IDE?**

Ans: Integrated Development Environment

1. **What is the difference between a text editor and a code editor?**

Ans: Text editor is used only for normal writing and editing text files. While code editor contains more functionalities and built-in features which helps programmer by identifying problem areas and errors in a code.

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

Ans: Steps to develop a software :

* Create a source file. (.c file)
* Build software by running source code through preprocessor, compiler and linker.
* By above steps software will be ready (.exe file)

1. **Explore by your own**
   1. **What is the latest version of C Language?**

Ans: C17 (ISO/IEC 9899:2018)

* 1. **Who developed C Language?**

Ans : Dennis Ritchie in 1970's at Bell labs.

* 1. **What is the difference between System and Application Software?**

Ans: System software helps running other programs, it means system software acts as interface for between machine and the application software.

On the other hand, application software is used to solve a particular problem and is designed for users.

For example: Notepad is an application software of MS windows which is a system software.

* 1. **How to convert a number from a decimal number system to a binary number system?**

Ans: We will divide the given number repeatedly by 2 until we get the quotient as 0.

We will note the remainders in order starting from unit place, to get the binary number.

Example : take number 17

17/2=8 (remainder 1)

8/2=4 (remainder 0)

4/2=2 (remainder 0)

2/2=1 (remainder 0)

½=0 (reminder 1)

Hence the binary number will be **10001.**