**C Language Live Community Class Assignment 1**

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

Computer is electronic components such as transistors, semiconductors, wires etc. and all these can indicate only two states or conditions ON (state 1) or OFF (state 0). Transistors are either conducting (state 1) or non-conducting (state 0), magnetic materials are either magnetized (state 1) in one or opposite direction or non-magnetized (state 0). Information is represented within a computer by the presence or absence of these types of signals.

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

The full form of IDE is Integrated Development Environment.

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

IDE arrives with larger programming features then the text editor. Some of the features include auto-completion of keywords and inbuilt function names, highlighting of syntax. In a text editor, the only goal is to have an environment where you can edit your code you will have to leave the editor to run/debug code.

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

* Create a source file with   .c extension.
* Build Software.

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

The latest version of C language is   C17 ISO/IEC 9899:2018.

* 1. ***Who developed C language?***

C language developed by **Dennis Ritchie** at AT&T’s Bell Labs USA in 1972.

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

System software main priority software that run the computer when we turn on the computer it activates the hardware and software to control their function of all the application. Operating System is main example of System Software.

Application Software is a set of one or more programs which solves a specific problem or does a specific task. For example, IRCTC, airline etc.

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

* Take decimal number as dividend.
* Divide this number by 2 (2 is a base of binary divisor here)
* Note the remainder (it will be either 0 or 1 because of divisor 2).
* Repeat the above two steps until the number is greater than zero.
* Write the values of all the remainders starting from the bottom to the top.