# C Language Live Community Classes Assignment 1

## **Assignment-1**

1. Why do computers understand only binary language?

Ans. : Because computer is an electronic machine which can only understand two phases I.e. on and off. so,it only understans binary language.i.e. 1 and 0.

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.: A text editor simply allows we to write and edit text and it does not have anything built-in to help we to code whereas a code editor is also a text editor but it also helps we write code.

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

Ans.: Step 1: Download IDE (Code Block/VS Code)

Step 2: Install IDE

Step 3: Create Project

Step 4: Write Program

Step 5: Save and Compile Code

Step 6: Run the Code

1. (a) What is the latest version of C Language?

Ans. : C17.

(b)Who developed C Language?

Ans.: [Dennis Ritchie](https://www.google.com/search?rlz=1C1VDKB_enZA935ZA935&sxsrf=ALiCzsbSaR2iKdQJDsySbGemoVM-5kh5sw:1655302026534&q=Dennis+Ritchie&stick=H4sIAAAAAAAAAONgVuLQz9U3MLI0Nn7EaMwt8PLHPWEprUlrTl5jVOHiCs7IL3fNK8ksqRQS42KDsnikuLjgmngWsfK5pOblZRYrBGWWJGdkpgIAndBlFFMAAAA&sa=X&ved=2ahUKEwjMgabK0K_4AhXF7XMBHT64DRoQzIcDKAB6BAgPEAE)

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

Ans. : System Software are designed to manage the resources of the system, like memory and process management, security, etc.

Application Software are designed to fulfill the requirements of the user for performing specific tasks.

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

Ans.: Step 1. Divide the integer by 2, while noting the quotient and remainder.

Step 2. Then, divide the quotient again by 2, and record the 3rd quotient and remainder.

Step 3. Like this, keep dividing each successive quotient by 2 until you get a quotient of zero.

Step 4. After this, just write all the remainders in reverse order to get the binary representation of the integer.

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