C Language Live Community Classes Assignment 1

Assignment-1

1. Why do computers understand only binary language?
2. What is the full form of IDE?
3. What is the difference between a text editor and a code editor?
4. What are the steps to develop software using the C language?
5. Explore by your own
    a. What is the latest version of C Language?
    b. Who developed C Language?
    c. What is the difference between System and Application Software?
    d. How to convert a number from a decimal number system to a binary number system?

ANSWER

1. Computer understand only binary language .It is because binary is a machine language which has 0 and 1 and the our data's in a form of 0 and 1.
2. IDE stands for Integrated Development Environment
3. Text editor – A text editor is used to edit text files. Example – notepad
   Code editor – Code editor on the other hand is specifically meant to edit codes. And there are many source code editors and IDEs Code editor provides to us many features like error, different colors etc. Example – CodeBlocks, Netbeans, DevCpp, VS code.
4. The steps to develop software using the C language are –
    - Step 1: Create the source file
    - Step 2: Write your program
    - Step 3: Save the program then
    - Step 4: Compile the code
    - Step 5: Run your code
5.
    a) C17
    b) Dennis M.Ritchie
    c) # System Software is the type of software which is the interface between application software and system. Low level languages

are used to write the system software. System Software maintains the system resources and gives the path for application software to run. An important thing is that without system software, system can not run. It is a general purpose software.

Application Software is the type of software that runs as per user request. It runs on the platform which is provided by system software. High level languages are used to write the application software. Its a specific purpose software.

d) In decimal to binary conversion, we convert a base 10 number to a base 2 number by using simple methods. For example, if 12_{10} is a decimal number then its equivalent binary number is 1100_2