

1. Why do computers understand only binary language?

Ans:- first you have to understand that binary language is basically just two digits - 0 and 1. Each of these digits actually represent 'state'; let's call it 'On' and 'Off'. To understand this better in electronics; an 'on' state could be thought of as a positive voltage say '5V' and 0 would represent '0' volts. These are the two states the electronic devices can understand. Computer understand only machine language the actual 0s and 1s the computer executes. 0s and 1s are called binary language therefore computer uses only binary language.

2. What is the full form of IDE?

Ans:- Integrated Development Environment

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

Ans:- • Text editor just display plain text in one color (black on white, usually, often with monospaced font), with more or less advanced facilities (search, replace, perhaps with regexes, macros / automation, etc.). A good text editor might be optimized to handle very large files, etc.

- Code editor on the other hand is specifically meant to edit code. They provide you with various features like auto indent, bracket matching, different colors for variables, key words, comments, pre-processor directives, strings, etc.

Code editors.

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

Ans:- Generally, the program development steps contains 6 phases, they are as follows

1. Requirements
2. Analysis
3. Design
4. Coding
5. Testing
6. Maintenance

5. (A). What is the latest version of C Language?

Ans:- The latest version of C is (ISO/IEC 9899:2018).

5. (B). Who developed C Language?

Ans:- Dennis Ritchie

5 (C). What is the difference between System and Application Software?

Ans:- **System Software:** -

1. It is a general-purpose software

2. System software maintains the computer resources and also provides a path for application software to run.
3. System software is written in low-level languages.
4. A computer cannot run without system software.

Application Software: -

1. It is a specific-purpose software.
2. It enables users to perform specific tasks.
3. Application software is written in high-level languages, such as Java and C++.
4. A computer can run without application software.

5 (D). How to convert a number from a decimal number system to a binary number system?

Ans:- Decimal integers to binary: Algorithm

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.