

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

Ans.

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

Ans. IDE stands for the integrated development environment (IDE). IDE Provides an Environment consolidated for the Programmer to write a Computer Program.

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

Ans. A text editor is comparable to a code editor; however, a code editor offers significantly more functionality. Text editors with sophisticated built-in capabilities and specific functionalities designed to ease and speed up the process of editing code are referred to as code editors.

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

Ans. • Problem Definition.

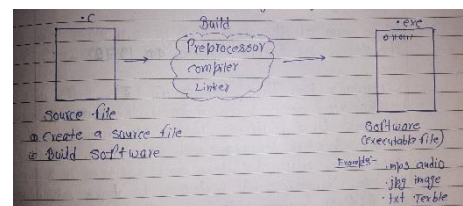
• Problem Analysis.

• Algorithm Development.

• Coding & Documentation.

• Testing & Debugging.

• Maintenance.

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

Ans.

**b. Who developed C Language?**

Ans.

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

Ans. System Software vs Application Software

S.No	System Software	Application Software
1	System software is used for operating computer hardware	Application software is used by users to perform a specific task.
2	System software is installed on the computer when the operating system is installed	Application software is installed according to the user's requirements
3	In general, the user does not interact with system software because it works in the background.	In general, the user interacts with application software.
4	System software can run independently. It provides a platform for running application software.	Application software can't run independently. They can't run without the presence of system software
5	Some examples of system software are compiler, assembler, debugger, driver, etc.	Some examples of application software are word processors, web browsers, media players, etc

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

Ans.

	$2^7$	$2^6$	$2^5$	$2^4$	$2^3$	$2^2$	$2^1$	$2^0$
	128	64	32	16	8	4	2	1
47 =	0	0	1	0	1	1	1	1
29 =	0	0	0	1	1	1	0	1