Features of C Language

FEATURES OF C LANGUAGE

C is the widely used language. It provides a lot of **features** that are given below.

1. Simple

2. Machine Independent or Portable

3. Mid-level programming language

4. structured programming language

5. Rich Library

6. Memory Management

7. Fast Speed

8. Pointers

9. Recursion

10. Extensible

1) Simple

C is a simple language in the sense that it provides **structured approach** (to break the problem into parts), **rich set of library functions**, **data types** etc.

2) Machine Independent or Portable

Unlike assembly language, c programs **can be executed in many machines** with little bit or no change. But it is not platform-independent.

3) Mid-level prorgramming language

C is **also used to do low level programming**. It is used to develop system applications such as kernel, driver etc. It **also supports the feature of high level language**. That is why it is known as mid-level language.

4) Structured prorgramming language

C is a structured programming language in the sense that **we can break the program into parts using functions**. So, it is easy to understand and modify.

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5) Rich Library

C **provides a lot of inbuilt functions** that makes the development fast.

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6) Memory Management

It supports the feature of **dynamic memory allocation**. In C language, we can free the allocated memory at any time by calling the **free()** function.

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7) Speed

The compilation and execution time of C language is fast.

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8) Pointer

C provides the feature of pointers. We can directly interact with the memory by using the pointers. We **can use pointers for memory, structures, functions, array** etc.

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9) Recursion

In c, we **can call the function within the function**. It provides code reusability for every function.

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10) Extensible

C language is extensible because it **can easily adopt new features**.