



UNIT 1 :- Basics of C

1. How are comments written in C? Explain with suitable examples. WBSCTE 2024
2. What are keywords in C? Give examples. WBSCTE 2022
3. What do you mean by library functions in C? Give any two examples. WBSCTE 2022
4. What is the difference between declaring a header file with < > and " " ? WBSCTE 2022
5. What is a header file in C? Explain with examples. WBSCTE 2022
6. Write any four advantages of Structured Programming.
7. Explain the various data types used in C with examples.
8. What are operators in C? Explain any four types of operators with examples.

1. How are comments written in C? Explain with example.

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Comments are non-executable statements used to explain the code. They are ignored by compiler and help improve code readability.

C supports two types of comments:

- Single-line comment: Begins with // and continues to the end of the line.
- Multi-line comment: Starts with /* and ends with */.

Example:

```
// This is a single-line comment
/* This is
   a multi-line
   comment */
printf("Hello World!");
```



2. What are keywords in C?

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Keywords

- Keywords are predefined, reserved words in C that have special meanings to the compiler.
- They cannot be used as variable names or identifiers.
- Each keyword performs a specific function in the program.

Examples: int, float, if, else, for, while, return, void, etc.

There are 32 keywords in standard C.

3. What do you mean by library functions in C program?

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Library functions

- Library functions are pre-written functions provided by C's standard library to perform common tasks like input, output, string handling, and mathematical operations.
- They save time because the programmer doesn't need to write code from scratch.
- To use them, we include header files.

Examples:

printf() and scanf() - declared in <stdio.h>

4. What is the difference between declaring a header file with `< >` and " "?



Type	System header file	Full Syllabus + LIVE CLASS + Recorded Class + Digital Note + Suggestion	Meaning
System header file	<code>#include <stdio.h></code>	The compiler searches for the file in standard library directories	With Answer

User-defined header file	<code>#include "headerfile.h"</code>	Premium WhatsApp Group	The compiler searches for the file in the current working directory first.
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Header File

- A header file contains definitions of functions, macros, and variables used in a C program.
- It allows code reusability and standardizes the program structure.
- Header files are included using the `#include` directive at the beginning of the program.

Common header files:

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- `<stdio.h>` - standard input/output functions
- `<string.h>` - string handling functions
- `<math.h>` - mathematical functions

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6. Write down the advantages of Structured Programming.

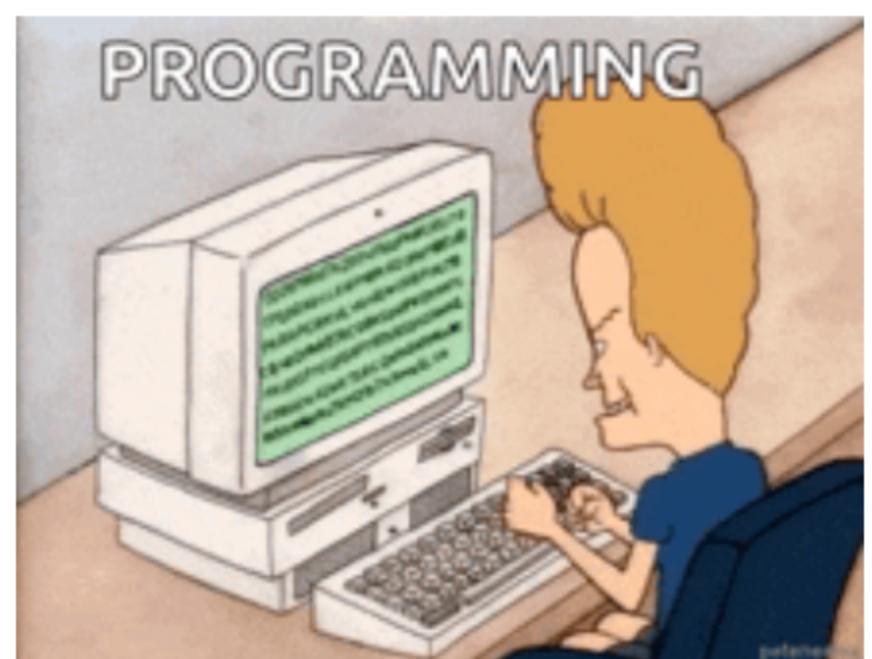
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Structured programming divides a program into small modules or functions.

Advantages

- **Easy debugging:** Errors can be easily found and corrected.
- **Code reusability:** Functions can be reused in other programs.
- **Better readability:** Code is easier to read and understand.
- **Easy maintenance:** Changes in one part of the program don't affect others.
- **Reliability:** Reduces redundancy and enhances program quality.



7. Explain the various data types used in C with examples.

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Basic Data Types:

Data Type in C
With Answer

int - stores integers (e.g., 10, -5)

float - stores decimal numbers (e.g., 3.14)

char - stores single characters (e.g., 'A')

double - stores floating-point numbers

void - indicates no return type

enum - defines a set of constants

union - combines multiple data types

struct - defines a user-defined data type

function - performs a specific task

operator - performs operations on data

pointer - points to memory locations

register - registers variables in CPU

const - defines constant variables

volatile - indicates memory is not guaranteed to be consistent

restrict - restricts pointer to specific variable

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Example:

```
int a = 5;
float b = 2.5;
char c = 'X';
```

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8. What are operators in C? Explain any four types with examples



Operators are special symbols used to perform operations on operands (variables or values).

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Types of operators:

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