Introduction to

MNNIT Computer Club

C - Class 2

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Increment/Decrement Operators

These are of 2 types:

- Post-increment Operator- i++;
- Pre-increment Operator- ++i;

For details see code...

Shorthand Assignment Operators

Shorthand Assignment operators

Simple assignment operator	Shorthand operator
a = a+1	a + =1
a = a-1	a - =1
a = a* (m+n)	a * = m+n
a = a / (m+n)	a / = m+n
a = a %b	a %=b

Conditional Operators

SEE CODE.

Precedence Of Operators

TASK: What should be the answer of the following expression?
5 - 4 + 2 * 5
The sequence of solving of operators is decided on the basis of their precedence.

Control Flow Statements

These statements determine the flow of execution of program that is the order in which statements are executed.

- Conditional Flow- conditional execution of statements
- Loop Flow/Structure- repetitive/iterative execution of statements

Conditional Flow Statements

- if
- if-else
- if-else if
- if else
- Nested if-else
- switch

HOMEWORK: Read switch yourself.

Loop Structure

- for
- while
- do-while

HOMEWORK: Print table of the input number using the above three statements.

Functions

- Functions are the building blocks of a program.
- Function performs same operations on different/same data at different parts of the program.
- Functions promote Code Reusability.



- An array is collection of items of same data type stored at contiguous memory locations.
- In C, an array can be n-dimensional.

Strings

- Strings are defined as an array of characters.
- The difference between a character array and a string is the string is terminated with a special character '\0'.

Pointers

- A pointer is a variable whose value is the address of another variable, i.e., direct address of the memory location.
- In C, pointers can be used with any primitive or user-defined data types or with functions.
- Pointers can be used for dynamic memory allocation in C.

Reading Resources

- [K. N. King] C Programming A Modern Approach (2nd Edition)
- [Kernighan & Ritchie] The C Programming Language
- [Deepali Srivastava] C in Depth



Thank You