# 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**