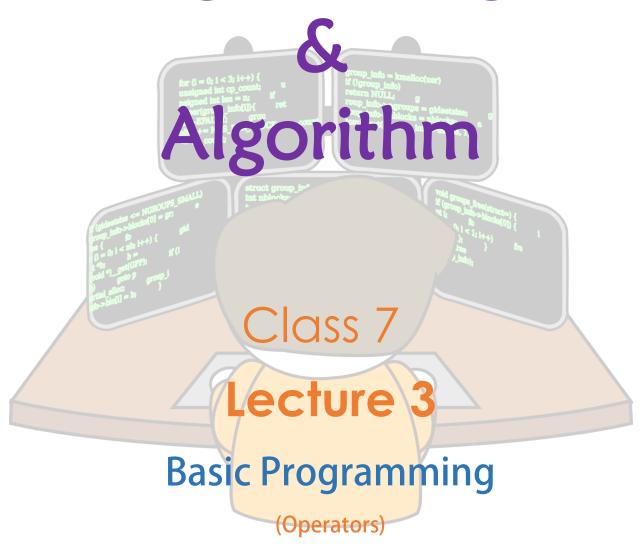
# Programming









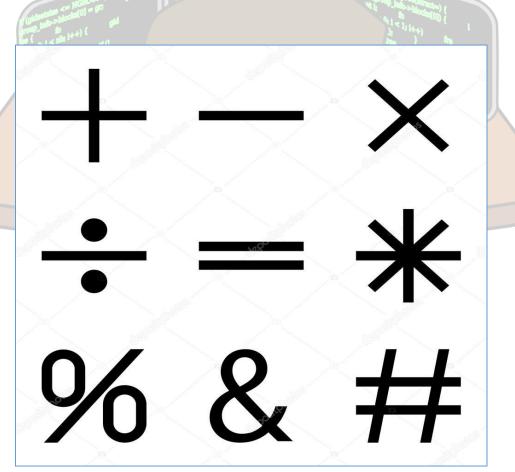
## Lab Objectives:

- What is Operator?
- Different Types of Operator.
- Different operations in programming.



## What is Operator?

An operator is a symbol that tells the compiler to perform specific mathematical or logical functions. Such as + , - , /





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## Types of Operators

Some type of operators is:

- Arithmetic Operators
- Relational Operators
- Logical Operators
- Bitwise Operators

Assignment Operators







#### i. Arithmetic Operators

The following table shows all the arithmetic operators.

Let A = 10 and B = 20

Operator	Description	Example
+	Adds two operands.	A + B = 30
_	Subtracts second operand from the first.	A - B = -10
*	Multiplies both operands.	A * B = 200
/	Divides numerator by de-numerator.	B / A = 2
%	Modulus Operator and remainder of after an integer division.	B % A = 0
++	Increment operator increases the integer value by one.	A++ = 11
	Decrement operator decreases the integer value by one.	A = 9





### ii. Relational Operators

The following table shows all the relational operators.

#### Let A = 10 and B = 20

Operator	Description	Example
==	Checks if the values of two operands are equal or not. If yes, then the condition becomes true.	(A == B) is not true.
!=	Checks if the values of two operands are equal or not. If the values are not equal, then the condition becomes true.	(A != B) is true.
>	Checks if the value of left operand is greater than the value of right operand. If yes, then the condition becomes true.	(A > B) is not true.
<	Checks if the value of left operand is less than the value of right operand. If yes, then the condition becomes true.	(A < B) is true.
>=	Checks if the value of left operand is greater than or equal to the value of right operand. If yes, then the condition becomes true.	$(A \ge B)$ is not true.
<=	Checks if the value of left operand is less than or equal to the value of right operand. If yes, then the condition becomes true.	(A <= B) is true.





#### iii. Logical Operators

The following table shows all the logical operators.

Let 
$$A = 10$$
 and  $B = 20$   
for  $(1 = 0; 1 < 3; i++)$  {
$$f(1 = 0; 1 < 3; i++)$$
 or  $f(1)$  if  $f(1)$  strong  $f(1)$  in  $f(1)$  if  $f(1)$  strong  $f(1)$  in  $f(1)$ 

Operator	Description	Example
&&	Called Logical AND operator. If both the operands are non-zero, then the condition becomes true.	(A && B) is false.
П	Called Logical OR Operator. If any of the two operands is non-zero, then the condition becomes true.	(A    B) is true.
Į.	Called Logical NOT Operator. It is used to reverse the logical state of its operand. If a condition is true, then Logical NOT operator will make it false.	!(A && B) is true.

You'll learn bitwise and assignment operators in higher class



