## Unit IV: Operators in Java

Operator is a symbol or sign used to specify an operation

The elements used in Operation on which the action is to be taken are known as aberongs.

Assignment Operator -> Operator -> Operand Operand Operand Operand

Expression is a set of variables, constants and arithmetical operators.

### Arithmetic Operators

Binory Ouant > Unoxy plus (+) if a=6 then to is 6 > Unary minus (-) if as then -a is-6 L) Unary increment (++) and Decrement (--) Cwill increase and decrease value by one respectively)

> Postfix ٥-- , 2++

Operators that operate on two operands

are said to be binory

operators.

Ternory

Syntax V= (test condition)? Exp1: Exp2

Operate on three aberonds

max = (a>b) ? a:b min = (a < b) ? a:b.

(11) 10 torgod (

and substitutions

prefix

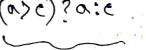
# Sharthand Operations

The binary aperators avilable in java language can also be written in short form. The tourse contractor con bed as as asserted

## Expression

$$9/=8$$
 $m/=3$ 
 $p=5$ 
 $a-=b$ 
 $m+=n$ 

## Nested Ternory



(p) c) ? p: c

condition

Expression 1

Expression 2

## Lògical Operadory

Operators used between two or more conditions inajava statement

## > Logical AND (&&)

returns true if all the conditions associated are true

-> Logical OR (11) oreture false if all the conditions associated are folse else true

## -> Logical NOT (!)

It is used with a consistion operang to one verse the nesult

#### AND OPERATOR

a > b	a > c	(a > b) && (a > c)
False	False	False
False	True	False
True	False	False
True	True	True
IOT OPERATOR		

a > b	!(a > b)
False	True
True	False

### OR OPERATOR

a > b	a > c	(a > b) && (a > c)
False	False	False
False	True	True
True	False	True
True	True	True

### RELATIONAL OPERATOR

Symbol	Meaning	Syntax
<	Less than	a <b< th=""></b<>
>	Greater than	a>b
< =	Less than or equal to	a<=b
>=	Greater than or equal to	a>=b
==	Equal to	a==b
! =	Not equal to	a!=b