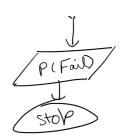
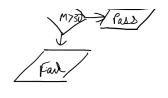
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M7	P(D)	Stop			JF -
					M750 Pass
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Lecture 2 Page 1





Java divides the operators into the following groups:

- Arithmetic operators \checkmark
- Assignment operators
- Comparison operators
 Logical operators
- Bitwise operators

2+3=5 2-3=-1

Arithmetic Operators

Arithmetic operators are used to perform common mathematical operations.

Operator	Name	Description	Example
+	Addition	Adds together two values	x + y
-	Subtraction	Subtracts one value from another	x - y
*/	Multiplication	Multiplies two values	x * y
/	Division	Divides one value by another	x / y
%	Modulus	Returns the division remainder	x % y
++	Increment	Increases the value of a variable by 1	++x
	Decrement	Decreases the value of a variable by 1	x

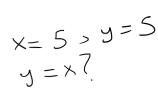
Assignment

Operator	Example	Same As	
=	x = 5	x = 5	x= 5
+=	x += 3	x = x + 3	
-=	x -= 3	x = x - 3	
*=	x *= 3	x = x * 3	
/=	x /= 3	x = x / 3	
%=	x %= 3	x = x % 3	
&=	x &= 3	x = x & 3	
[=	x = 3	x = x 3)
^=	x ^= 3	x = x ^ 3	Rite
>>=	x >>= 3	x = x >> 3	/ Bits
<<=	x <<= 3	x = x << 3	



comparison > + swe/fall

Operator	Name	Example
	Equal to	x == y
!=	Not equal	x != y
(>	Greater than	x > y
<	Less than	x < y
>=	Greater than or equal to	x >= y
=	Less than or equal to	x <= y

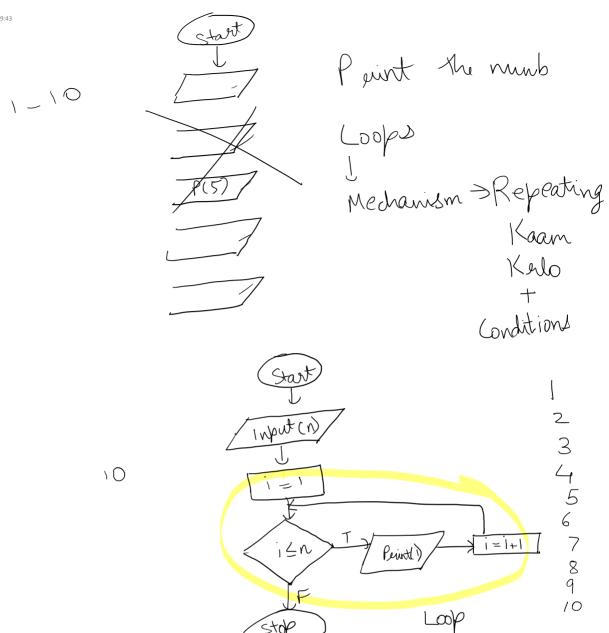


Java Logical Operators

You can also test for true or false values with logical operators.

Logical operators are used to determine the logic between variables or values:

Operator	Name	Description	Example
&&	Logical and	Returns true if both statements are true	x < 5 && x < 10
П	Logical or	Returns true if one of the statements is true	x < 5 x < 4
!	Logical not	Reverse the result, returns false if the result is true	!(x < 5 && x < 10)



Stop

1 - n: Sum of Modural Numbers Sum =0+1=1



Swm =0 sum = Sum +1 0 = 0 + 1 × Sum = 0 + 1 = Sum = 1

