













# PROBLEM SOLVING PROCESS

Class IX lab 5









## Operator and Their Symbols

Operator	Computer Symbol	Example	
Mathematical		Operation	Resultant
Addition	+	3.0 + 5.2	8.2
Subtraction	-	7.5 – 4.0	3.5
Multiplication	*	8.0 * 5.0	40.0
Division	1	9.0/4.0	2.25
Integer division	١	9\4	2
Modulo division	MOD	9 MOD 4	1
Power	٨	3^2	9
Relational	•	·	
Equal to	=	5 = 7	False
Less than	<	5 < 7	True
Greater than	>	5>7	False
Less than or equal to	<= (two key strokes)	5 <= 7	True
Greater than or equal to	>= (two key strokes)	5 >= 7	False
Not equal to	<> (two key strokes)	5<>7	True
Logical			
Not	NOT	NOT True	False
And	AND	True AND True	True
Or	OR	True OR False	True







### Logical Operators

А	Not A	When A Is		The Resultant Is
True	False	NOT True	ls	False
False	True	NOT False	ls	True

### AND

А	В	A AND B	When Als		When Bls	Т	he Resultant Is
True	True	True	True	AND	True	Is	True
True	False	False	True	AND	False	Is	False
False	True	False	False	AND	True	ls.	False
False	False	False	False	AND	False	ls.	False

### OR

А	В	A OR B	When A Is		When Bis		The Resultant Is
True	True	True	True	OR	True	ls	True
True	False	True	True	OR	False	ls	True
False	True	True	False	OR	True	ls	True
False	False	False	False	OR	False	ls	False







## Hierarchy of Operations

Order of Operations	Operand Data Type	Resultant Data Type				
( ) Reorders the hierarchy; all operations are completed within the parentheses using the same hierarchy.						
1. Functions						
Mathematical Operators						
2. Power	Numeric	Numeric				
3.  MOD	Numeric	Numeric				
4. *,/	Numeric	Numeric				
5. +, -	Numeric	Numeric				
Relational Operators						
6. =, <, >, <=, >=, <>	Numeric or string or character	Logical				
Logical Operators						
7. NOT	Logical	Logical				
8. AND	Logical	Logical				
9. OR	Logical	Logical				

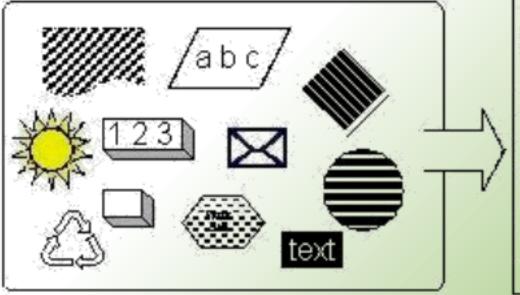






### How the Computer Stores Data

### Your Data



### Computer Data









