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# Using Binary Variables to Represent Logical Conditions in Optimization Models

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# ***Operators***

- ***Operator is symbol, which represents, a particular operation that can be performed on some data.***
- ***Operators are use in programs calculate mathematical or logical expressions.***




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# Operators

- *The variables and constants on which the operators act are known as operands.*
- *Ex :  $a+b$  ; where  $a$  and  $b$  are operands and '+' is a operator.*
- *Operators are always associated with operands.*

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# Operators

- ***Depending upon number of operands there are basically three types of operators.***
- ***Binary Operator*** 
- ***Unary Operator*** 
- ***Ternary Operator*** 

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***(1) Binary Operator : The operator, which has two operands ,is known as Binary operator.***

***Ex :  $a + b$***

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***(2) Unary Operator : The operator, which has one operand, is known as unary operator.***

***Ex : -a***

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***(3) Ternary Operator : The operator, which has three operands, is known as ternary operator.***

***Ex : (a>b) ? a : b***

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