

TDTL Variables

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|---------|----------------------------------|
| BOOLEAN | TRUE or False |
| LETTER | a-z or A-Z |
| STRING | String of Letters |
| NUMBER | -2,147,483,647 to +2,147,483,647 |
| FLOAT | 88.0f / 88.1234567f |

Selection

| | |
|-------------------------|-------------------------------------------------------------------------------------------------------|
| IF (x Condition y) | While comparison of x and y is true execute code |
| ELSE | While original IF statement comparison of x and y is false execute code |
| ELSE IF (x Condition y) | while original IF statement comparison of x and y is false but new x Condition y is true execute code |
| BREAK | Break out of IF statment |

Iteration

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|-----------------------------|------------------------------------------|
| LOOP(x) | x = ammout of times to loop |
| LOOP WHILE (x Comparison y) | Loop while comparison of x and y is true |

Assignment

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|-------------|-----------------------|
| EQUALS or = | Assign variable value |
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Boolean Operators

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|-----------|-------------|
| NOT or ! | Logical NOT |
| AND or && | Logical AND |
| OR or | Logical OR |

Input/Output

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|-------------|------------------------------------|
| OUTPUT "x" | output x to the console |
| x INPUT "y" | output y and input into variable x |

Comparison

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|-------------------------------------------|----------------------------------------------------------------------------------------|
| x IS EQUAL TO y or x == y | Equality. True if x is equal to y and false otherwise. |
| x IS NOT EQUAL y or x != y | Inequality. True if x is not equal to y and false otherwise |
| x IS GREATER THAN y or x > y | Greater than. True if x is greater than than y and false otherwise |
| x IS GREATER THAN OR EQUAL TO y or x >= y | Greater than or equal to. True if x is greater than or equal to y and false otherwise. |
| x IS LESS THAN y or x < y | Greater than. True if x is greater than than y and false otherwise. |
| x IS LESS THAN OR EQUAL TO y or x <= y | Less than or equal to. True if x is less than or equal to y and false otherwise. |

Operators

| | |
|-----------------------|--------------------------------------|
| x ADD y or x + y | Sum of x and y |
| x SUBTRACT y or x - y | Difference of x and y |
| x MULTIPLY y or x * y | Product of x and y |
| x DIVIDE y or x / y | Quotient of dividend x and divisor y |

