**Training**

**Date:07/01/25**

**Data types:**

**Dynamic type language:**

Two types

1. Primitive datatype
2. Non-primitive data type : Objects , Arrays

**To check the data type – typeOf**

**Primitive data type** : predefined : we can only store single values

1. Numbers : integers , floats
2. String : Stream of characters enclosed in quotes ----- single , double , backtick quotes(introduced in ES6 version)
3. Boolean : true or false
4. Null : empty value or no value
5. Undefined : declare variable with no value

**Condition** : An expression that evaluates the result(true or false)

**Conditional Statement** : To make a set instructions execute only when the conditional is true

**Block of code(conditional block)** : set of instructions . It will execute when the specific condition is True

Indentation : {

//block of code

}

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**JavaScript Operators:**

1.Arithmetic Operators: +,-,\*,/,%,\*\*,++,--

2.Assignment Operators : += , -= , /= , %=

3.Logical Operators : && , || , !

4.Relational Operators : < , > , >= , <= , == , === , != , !===

**Conditional Operator ; Ternary Operator(?)**

First evaluates an expression for a true or false ;

Condition ? e1 : e2

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**Conditional Statements:**

* To make the set instructions(block of code)(conditional block) execute only when the given condition is true
* Used to decide whether the code has to be executed or skip based on the given condition
* Line-line sequence

**Block of code**: set of instructions

It will execute only when the specific condition is true

**Condition** : An expression that evaluates an result(True or False)

Ex : console.log(5>6)

**Methods:**

**If**: only one possible condition

If the condition is true it will execute

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**Loops:**

Conditional Statements:

--------block of code

Loops: Block of code several times

1. For loop
2. For in
3. For of
4. While
5. Do while

**1 . for loop :**

for(initialization ; condition ; update expression){

-----block of code

}

Ex:

For(let i=1;i<=5;i++){

Console.log(i)

}

Int i = 1,2,3,4,5

Cond:1<=5 T,2<=5 T , 3<=5 T , 4<=5 T , 5<=5 T , 6<=5 F

Updation : i++ = i=i+1 # 1+1 = 2,2+1=3,4 5

2.for(let i=1;i<7;i+2){

Console.log(i+2)

}

Int I = 0,1,2,3,4,5,6

Cond:1<7 T,2<7 T,3,4,5,6<7T,7<7 F

Updation:i+2 = 0+2 = 2, 2+2 =4,4+2 = 6 ,6+2=8