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JavaScript II

Conditionals

أكاديمية طويق TUWAIQ ACADEMY

وزارة الاتصالات وتقنية المعلومات MINISTRY OF COMMUNICATIONS AND INFORMATION TECHNOLOGY

الاتحاد السعودي للأمن السيبراني والبرمجة والدرونز SAUDI FEDERATION FOR CYBERSECURITY, PROGRAMMING & DRONES

مهارات المستقبل

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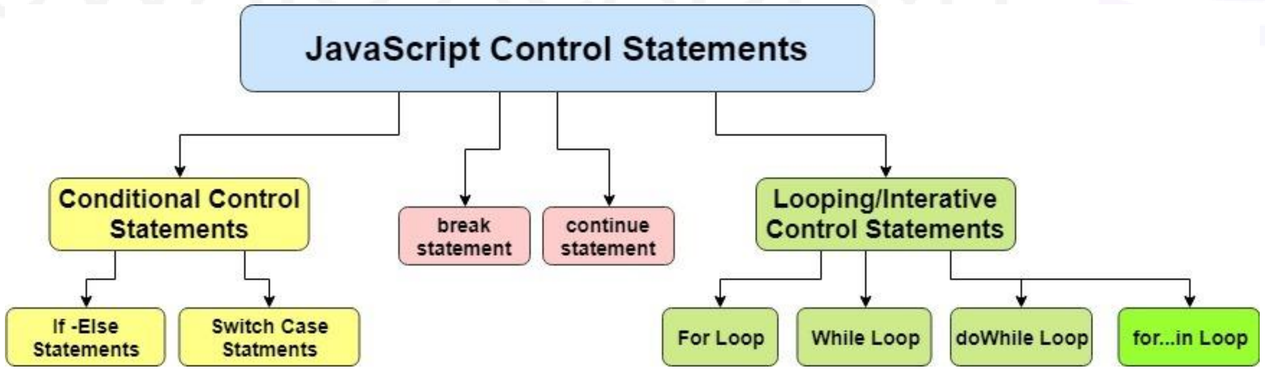
Objective

- Comparison Operators
- If, else and else if conditional
- Logical Operators
- Switch Conditional

Control Structures in JavaScript

❖The control structures allow the flow of your program to change within a unit of code or function.

❖ These statements can determine whether given statements are executed, or they can repeat the execution of a block of code.



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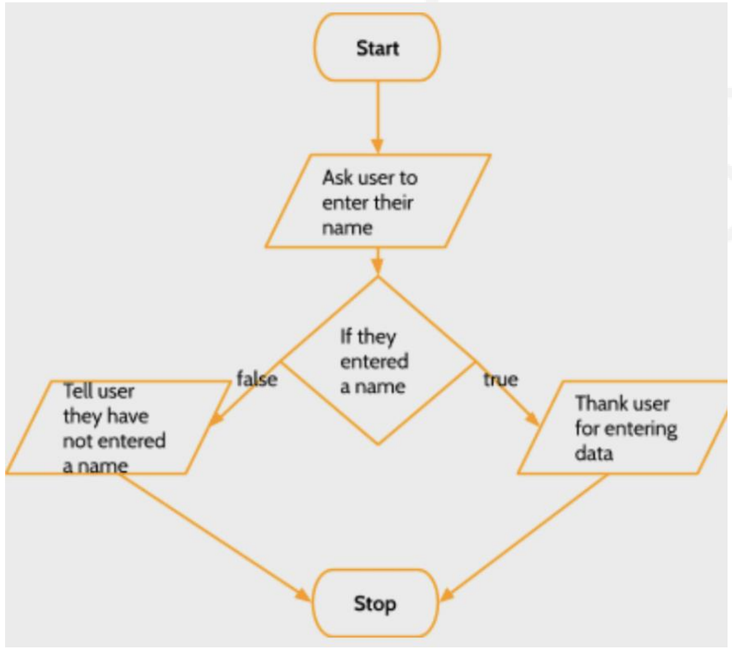
The if Conditional

❖**If Statement:** is able to compare two or more variables or scenarios and perform a certain action based on the outcome of that comparison

❖In JavaScript if statements have the following general syntax:




```
If (condition) {
        Indented statements;
}
```

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Comparison Operators

Operator	Description	Example
>	greater than	Condition: 12 > 1 Result: True
<	less than	Condition: 12 < 1 Result: False
>=	greater than or equal to	Condition: 12 >= 1 Result: True
<=	less than or equal to	Condition: 12 <= 12 Result: True
==	equals	Condition: 12 == 1 Result: False
===	Equal value and equal type	Condition: 12 === twelve Result: False
!=	does not equal	Condition: 12 != 1 Result: True

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ELSE and ELSE IF Statement

```
let num = 10;

if (num >12) {
    console.log("the variable num is greater than 12");
}
else if (num > 10) {
    console.log("the variable num is greater than 10");
}
else if (num < 5) {
    console.log("the variable num is less than 5");
}
else {
    console.log("the variable num is 10");
}
```

Logical Operation

❖ AND (&&):

```
let num = 12;
if (num >= 10 && num <= 15){
    console.log(num + " is a value between 10 and 15");
}
```

❖OR (||):

```
let lotsOfMoney = false;
let receivedGift = false;
let loanApproved = true;

if (lotsOfMoney || receivedGift || loanApproved){
    console.log("Can purchase a car");
} else {
      console.log("Sorry! Can't afford a car");
}
```

❖ NOT (!)

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The Switch Conditional

```
switch(expression)
{
	case 1:
		Do something;
		break;
	case 2:
		Do something else;
		break;
	default:
		Else do this;
		break;
}
```

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Resources

- JavaScript conditional statements and loops - Exercises, Practice, Solution

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Summary

- Comparison Operators
- If, else and else if conditional
- Logical Operators
- Switch Conditional