

CONDITIONAL STATEMENTS



Conditional statements :-

Conditional statements are used to perform different actions based on different conditions.

In JavaScript we have the following conditional statements

- Use `if` to specify a block of code to be executed, if a specified condition is true
- Use `else` to specify a block of code to be executed, if the same condition is false
- Use `else if` to specify a new condition to test, if the first condition is false
- Use `switch` to specify many alternative blocks of code to be executed

1. If statements :-

Use the if statement to specify a block of JavaScript code to be executed if a condition is true.

Syntax :

```
If(condition){  
    // block of code to be executed if the condition is true  
}
```

2. Else statements :-

Use the else statement to specify a block of JavaScript code to be executed if a condition is False.

Syntax :

```
If(condition){
```

```
    // block of code to be executed if the condition is true
```

```
}
```

```
else {
```

```
    // block of code to be executed if the condition is false
```

```
}
```

3. The else if Statement:-

Use the else if statement to specify a new condition if the first condition is false.

```
If(condition1){  
    // block of code to be executed if condition1 is true  
}  
else if(condition2){  
    block of code to be executed if the condition1 is false and condition2 is true  
}  
else{  
    // block of code to be executed if the condition1 is false and condition2 is false  
}
```

Exercise Condition Statement -:

- Q1. Check if a number is odd or even in JavaScript ?
- Q2. Find check if a year is leap year or not. ?
- Q3. Find the grade [A = 80 to 100, B = 50 to 80, C = 30 to 50 , D= less 30,] ?
- Q4. Find the largest of three number ?
- Q5. Make a "Good day" greeting if the hour is 12:00,
- Q6. to If the time is 3AM – 9AM create a “Good Morning” greeting, if the time is 9AM 3PM create a “After Noon” greeting, if the time is 3PM to 9PM create Good Evening , other wise Good night greeting.
- Q.7 If a = 20 , b = 30 and C = 15 – then sort the number, output(15,20,30).

4. Switch statements :-

The Switch statement is used to perform different actions based on different conditions.

Syntax :

```
switch (expression){  
  case condition 1:  
    statement(s)  
    break;  
  
  case condition 2: statement(s)  
    break;  
  
  case condition n: statement(s)  
    break;  
  default:  
    statement(s)  
}
```

Qus-:

```
Var grade = 'B';  
Document.Write("entering switch block<br />");  
Switch (grade) {  
Case 'A':  
Document.Write("good job<br />");  
Break;  
Case 'B': document.Write("pretty good<br />");  
Break;  
Case 'C': document.Write("passed<br />");  
Break;  
Case 'D': document.Write("not so good<br />");  
Break;  
Case 'F': document.Write("failed<br />");  
Break;  
Default: document.Write("unknown grade<br />")  
}  
  
Document.Write("exiting switch block");
```