

# TRAINING REPORT (TR-102)

DAY: -13 (25 JUNE 2024)

## JavaScript Operation: -

- **JS if, else, and else if:** - Conditional statements are used to perform different actions based on different conditions.

### Conditional Statements: -

- Very often when you write code, you want to perform different actions for different decisions.
- You can use conditional statements in your code to do this.
- 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.

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

**Syntax:** if (condition) {statement}

Note that if is in lowercase letters. Uppercase letters (If or IF) will generate a JavaScript error.

**else Statement:** - Use the **else** statement to specify a block of code to be executed if the condition is false.

**Syntax:** if (condition) {statement}

else {statement}

**else if Statement:** - Use the **else if** statement to specify a new condition if the first condition is false.

**Syntax:** if (condition1) {statement}

else if (condition2) {statement}

else {statement}

**Switch statement:** - The **switch** statement is used to perform different actions based on different conditions. Use the **switch** statement to select one of many code blocks to be executed.

**Syntax:** Switch (condition)

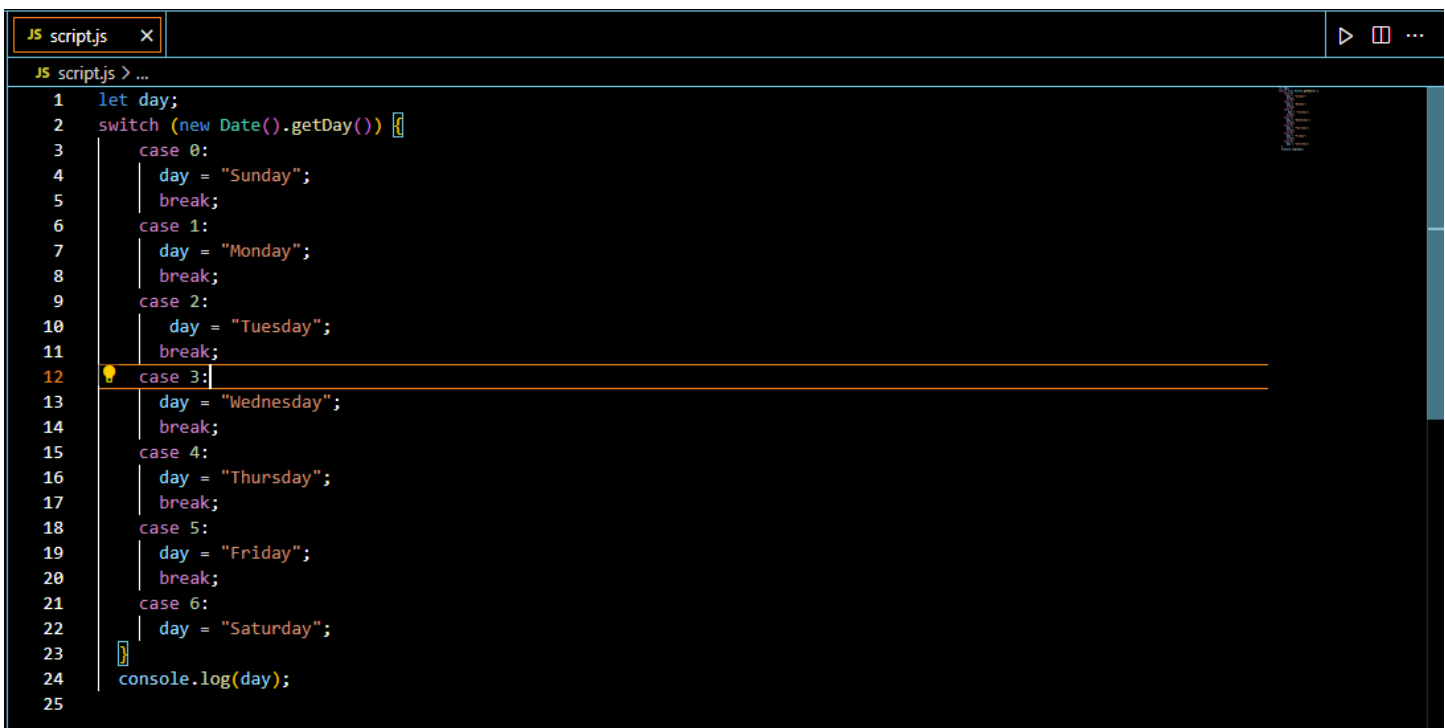
```
{  
  case x: //code block  
    break;  
  case y: //code block  
    break;
```

```
    case z: //code block
    break;
    default: //code block
    }
```

### **This is how it works:**


- The switch expression is evaluated once.
- The value of the expression is compared with the values of each case.
- If there is a match, the associated block of code is executed.
- If there is no match, the default code block is executed.

### **PROGRAM: -**



```
JS script.js > ...
1  let day;
2  switch (new Date().getDay()) {
3      case 0:
4          day = "Sunday";
5          break;
6      case 1:
7          day = "Monday";
8          break;
9      case 2:
10         day = "Tuesday";
11         break;
12     case 3:
13         day = "Wednesday";
14         break;
15     case 4:
16         day = "Thursday";
17         break;
18     case 5:
19         day = "Friday";
20         break;
21     case 6:
22         day = "Saturday";
23     }
24     console.log(day);
25
```

### **OUTPUT: -**



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Code
[Running] node "c:\Users\Sparrow Technologies\OneDrive\Desktop\Project\script.js"
Friday
[Done] exited with code=0 in 0.213 seconds
```

## HOMEWORK: -

Write a JS program that displays the largest among two integers.

## PROGRAM: -

```
JS script.js > ...
1  let num1=8;
2  let num2=4;
3  if (num1>num2)
4  {
5      console.log("Num1 has largest value than Num2");
6  }
7  else if (num1<num2)
8  {
9      console.log("Num2 has largest value than Num1");
10 }
11 else
12 {
13     console.log("Num1 and Num2 both have equal values")
14 }
```

## OUTPUT: -

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
[Running] node "c:\Users\Sparrow Technologies\OneDrive\Desktop\Project\script.js"
Num1 has largest value than Num2

[Done] exited with code=0 in 0.439 seconds
```