## <!--! Conditional Statement -->

## <!--! 1. if statement -->

The if statement is used to evaluate a particular condition. If the condition holds true, the associated code block is executed.

```
<!--? syntax: -->

if ( condition ) {
    <!-- If the condition is met,
    code will get executed. -->
}
```

#### <!--! 2. if-else Statement -->

The if-else statement will perform some action for a specific condition. Here we are using the else statement in which the else statement is written after the if statement and it has no condition in their code block.

```
<!--? synatax -->
if (condition)
{
     <!-- executes if the condition is true -->
}
else {
     <!-- if the above condition is not true then this block will execute -->
}
```

### <!--! 3. else if Statement -->

The else if statement in JavaScript allows handling multiple possible conditions and outputs, evaluating more than two options based on whether the conditions are true or false.

# <!--! 4. Switch Statement -->

As the number of conditions increases, you can use multiple else-if statements in JavaScript.

but when we dealing with many conditions, the switch statement may be a more preferred option.

```
<!--? syntax -->
switch (expression) {
   case value1:
       statement1;
       break;
   case value2:
       statement2;
       break;
       · · ·
       case valueN:
       statementN;
       break;
   default:
       statementDefault;
};
```

```
let num1 = 0
if(num1>0)
  console.log('greater than zero')
console.log('-----')
let num2 = 0
if(num2>0)
  console.log('greater than zero')
else{
  console.log('not greater than zero')
console.log('-----')
let num3 = 10;
if(num3 ==0)
  console.log('it is zero')
else if(num3>0)
   console.log('it is greater than zero')
else{
   console.log('it is less than zero')
console.log('----')
```

```
// let num4 = Number.parseInt(prompt("enter one number"))
     console.log(`${num4} is even`)
//
      console.log(`${num4} is odd`)
// }
let num5 = 12
if(num5>0)
         if(num5>15)
            console.log('greater than 15')
         else{
           console.log('greater than zero but less than 15')
else{
    console.log('less than 0')
```

```
task 2: LeapYear using nested if-else
let year = 1900
if(year % 4 == 0){
    if(year % 100 == 0)
        if(year % 400==0)
            console.log('it is leap year')
        else{
            console.log('not leap year')
    else{
        console.log('leap year')
    }
else{
    console.log('not leap year')
let day = 2;
switch(day)
    case 1: console.log('this is sunday')
            break;
    case 2: console.log('this is monday')
    case 3: console.log('this is tuesday')
            break;
    case 4: console.log('this is wednesday')
            break;
    case 5: console.log('this is thursday')
            break;
    case 6: console.log('this is friday')
            break;
    case 7: console.log('this is saturday')
            break;
    default: console.log('not valid day')
```