

Operators in JavaScript

1. Check if a number is Even or Odd

Question:

write a Javascript program that prompts the user to enter a number and alerts “Even” if the number is even, or "Odd" if the number is odd. Use the modulus operator % to check if the number is divisible by 2.

Input (via prompt):

Enter a number: 7

Expected Output (via alert):

"Odd"

Input (via prompt):

Enter a number: 10

Expected Output (via alert):

"Even"

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var num=+prompt("Enter a number:");
    if(num%2==0){
      console.log("Even");
    }
    else{
      console.log("Odd")
    }
  </script>
</body>
</html>
```

2. Compare Two Numbers

Question:

Write a JavaScript program that prompts the user to enter two numbers and alerts:

"Greater if the first number is greater than the second,

"Equal" if both numbers are equal,

"Smaller if the first number is smaller than the second.

Input (via prompt):

Enter the first number: 10

Enter the second number: 5

Expected Output (via alert):

"Greater"

Input (via prompt):

Enter the first number: 7

Enter the second number: 7

Expected Output (via alert):

"Equal"

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var num1=+prompt("Enter The First Number:");
    var num2=+prompt("Enter The Second Number:");
    if(num1>num2){
      console.log("Greater");
    }
    else if(num1==num2){
      console.log("Equal");
    }
    else{
      console.log("Smaller");
    }
  </script>
```

```
</body>
</html>
```

3. Driving Eligibility Check

Question:

Write a JavaScript program that prompts the user to enter their age and whether they have a valid driver's licence (true or false). The program should alert "Can drive if the person is 18 or older and has a valid driver's Licence, otherwise it should alert Cannot drive".

Input (via prompt):

Enter your age: 20

Do you have a valid driver's License (true/false): true

Expected Output (via alert):

“Can drive”

Input (vta prompt):

Enter your age: 16

Do you have a valid driver's License (true/false): true

Expected Output (via alert):

“Cannot drive”

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var age=+prompt("Enter Your Age:");
    if(age>=18){
      console.log("Can Drive");
    }
    else{
      console.log("Cannot Drive");
    }
  </script>
</body>
```

</html>

4. Determine if a Number is Positive, Negative, or Zero

Question:

Write a JavaScript program that prompts the user to enter a number and alerts "Positive" if the number is greater than 0, "Negative" if the number is less than 0, or "Zero" if the number is 0.

Input (via prompt):

Enter a number: 5

Expected Output (via alert):

"Positive"

Input (via prompt):

Enter a number: -3

Expected Output (via alert):

"Negative"

Input (via prompt):

Enter a number: 0

Expected Output (via alert):

"Zero"

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var number=prompt("Enter a number:");
    if(number>0){
      console.log("Positive");
    }
    else if(number<0){
      console.log("Negative");
    }
  </script>
</body>
</html>
```

```
        else{
            console.log("Zero");
        }
    </script>
</body>
</html>
```