

## Conditional Statements

### 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

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>
    //-----1-----

    num=prompt("enter a number")

    if(num%2==0){
      alert(`${num} is even`)
    }
    else{
      alert(`${num} is odd`)
    }
  </script>
</body>
</html>
```

127.0.0.1:5500 says

enter a number

OK Cancel

127.0.0.1:5500 says

7 is odd

OK

127.0.0.1:5500 says

enter a number

OK Cancel

127.0.0.1:5500 says

10 is even

OK

## 2. Compare Two Number's

### 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"

```
a = +prompt("enter the first number: ");
b = +prompt("enter the second number: ");
if (a > b) {
    alert("Greater");
} else if (a == b) {
    alert("Equal");
} else {
    alert("Smaller");
}
```

127.0.0.1:5500 says

enter the first number:

OK Cancel

127.0.0.1:5500 says

enter the second number:

OK Cancel

127.0.0.1:5500 says

Greater

OK

127.0.0.1:5500 says

enter the first number:

OK Cancel

127.0.0.1:5500 says

enter the second number:

OK Cancel

127.0.0.1:5500 says

Equal

OK

### 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 License (true or false). The program should alert "Can drive" if the person is 18 or older and has a valid driver's license, 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 via prompt): Enter your age: 16

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

Expected Output (via alert): "Cannot drive"

```
age = +prompt("Enter your age:");
driver_license = true;
if (age >= 18) {
  if (driver_license == true) {
    alert("Can drive");
  }
} else {
  alert("Cannot drive");
}
```

127.0.0.1:5500 says

Enter your age:

OK

Cancel

127.0.0.1:5500 says

Can drive

OK

127.0.0.1:5500 says

Enter your age:

OK

Cancel

127.0.0.1:5500 says

Cannot drive

OK

#### 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:

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"

```
num=+prompt("Enter a number: ")
if(num>0){
    alert("Positive")
}
else if(num==0){
    alert("Zero")
}
else{
    alert("Negative")
}
```

127.0.0.1:5500 says

Enter a number:

OK Cancel

127.0.0.1:5500 says

Positive

OK

127.0.0.1:5500 says

Enter a number:

-3

OK

Cancel

127.0.0.1:5500 says

Negative

OK

127.0.0.1:5500 says

Enter a number:

0

OK

Cancel

127.0.0.1:5500 says

Zero

OK