

### 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"

Answer:

```
<script>
    var x = prompt("Enter a number :")
    if(x % 2 === 0){
        alert("The Number is even")
    }else{
        alert("The Number Is odd")
    }
</script>
```

### 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"

Answer:

```
<script>
    var a = +prompt("Enter a First Number:")
```

```

var b =+prompt("Enter the secound number")

if(a>b){
    alert("greater")
}
else if(a==b){
    alert("Equal")
}
else{
    alert("Smaller")
}
</script>

```

3.

### 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"

Answer

```

<script>
    var age = +prompt("Enter your age:")

    if(age>=18){
        var license =prompt("Enter Do You Have A
Driving License(true/false):" );
        if(license == "true"){
            alert("you can drive")
        }else{

```

```

        alert("take the license not allowed to
drive")
    }
}
else{
    alert("you can not drive")
}
</script>

```

4.

```

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

```

Answer:

```

<script>
    var x =+prompt("Enter a Number:");
    if(x>0){
        alert("positive")
    }
    else if(x<0){
        alert("negative")
    }else{
        alert("zero")
    }
</script>

```