

TASK-7

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.

```
var num = prompt("Enter a number:");
if (num % 2 == 0) {
    alert("Num is even");
} else {
    alert("Num is odd");
}
```

Input (via prompt):

Enter a number: 7

Output (via alert):

"Num is odd"

Input (via prompt):

Enter a number: 10

Output (via alert):

"Num is even"

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.

```
var num1=prompt("Enter a number 1:");
var num2=prompt("Enter a number 2:");
if(num1 > num2){
    alert("Greater")
}
else if(num1 == num2){
    alert("Equal")
}
else{
    alert("Smaller")
}
```

Input (via prompt):

Enter the number 1: 10

Enter the number 2: 5

Output (via alert):

"Greater"

Input (via prompt):

Enter the number 1: 7

Enter the number 2: 7

Output (via alert):

"Equal"

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."

```
var age=+prompt("Enter your age");
var license=prompt("Do you have a valid license ")
if(age >= 18 )
{
    if(license == "yes"){
        alert("Can drive")
    }
    else{
        alert("Cannot drive")
    }
}
else{
    alert("Can't drive")
}
```

Input (via prompt):

Enter your age: 20

Do you have a valid driver's license : yes

Output (via alert):

"Can drive"

Input (via prompt):

Enter your age: 16

Do you have a valid driver's license : yes

Output (via alert):

"Cannot drive"

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.

```
var num = prompt("Enter a number")
    if(num > 0){
        alert("Number is Positive")
    }
    else if(num < 0){
        alert("Number is Negative")
    }
    else{
        alert("Number is zero")
    }
```

Input (via prompt):

Enter a number: 5

Output (via alert):

"Positive"

Input (via prompt):

Enter a number: -3

Output (via alert):

"Negative"

Input (via prompt):

Enter a number: 0

Output (via alert):

"Zero"

