1)
Write a JavaScript program to check if 5 is divisible by 2, - Hint use % operator.

2)
Could you find out an error in below code:

```javascript
var x = 20;
var y = 10;
console.log(x);
console.log(c);
x = x * 2;
console.log(x);
```

3)
Write a Javascript program to check if the number 13 is even or odd. - Hint use if-else condition and % operator.

4)

```javascript
var x = 3;
x = x + 2;
console.log(x);
var y = 7;
console.log(4>y);
console.log(x>y);
console.log(x%y);
y = y - 1
console.log(y);
console.log(y/2);
```

What above program prints? -Hint you can run this program and give the output. However in mid and final exam you don't have such an option.

5)

Below code checks if a number is in the range between 7 to 14:

```
var x = 12;
if(x>=7){
    if(x<=14){
        console.log("between 7 to 14");
    }else{
        console.log("it doesn't fall between 7 to 14");
    }
}else{
    console.log("it doesn't fall between 7 to 14");
}
```

<u>Rewrite the same above program using relational operator &&.</u>

6)

```
var x = 20;
var y = 10;
if(x > 12 || y > 12){
    console.log("YES");
}else{
    console.log("NO");
}
y = y + 2;
console.log(x > 12 || y > 12);
console.log(x >= 12 || y > 12);
```

Write the output of the above program.

7)

Write a program to check if a variable x is in the range of 20 to 30 OR 50 to 60.
Hint - use && , || operators.

8)

   a)Use <u>for</u> loop to print numbers from 0 to 50.

   b)Use <u>while</u> loop to print numbers from 0 to 50.

9)

Write a program to determine a number that is divisible by 3 and 5 that lie between 1 and 50 and then print its square.