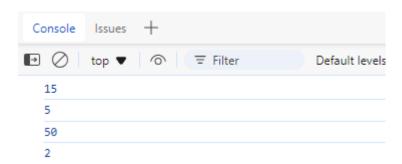
Task 26:

Convert a string to a number using both implicit and explicit conversion.

code:

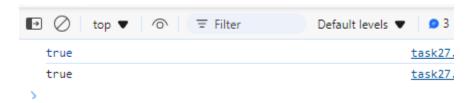
output:



Task 27:

Convert a boolean to a string and vice versa.

```
<html>
<head>
<title>
task
</title>
</head>
<body>
<script>
let name="john";
let file=true;
let n= Boolean(name);
let f=String(file);
console.log(n);
console.log(f);
</script>
</body>
</html>
```



Task 28:

Practice basic arithmetic operators (+, -, *, /, %).

15	<u>28.html</u>
5	28.html
50	28.html
2	28.html
0	<u>28.html</u>

Task 29:

Use the ++ and -- operators on a numeric variable.

10	<u>29.html</u>
12	29.html
4	<u>29.html</u>
4	<u>29.html</u>
12	<u>29.html</u>

Task 30:

Explore the precedence of operators by combining multiple operators in a single expression.

```
52.40000000000000 30.html:13
false 30.html:14
```

Task 31:

Compare two numbers using relational operators (>, <, >=, <=).

```
        false
        31.html

        true
        31.html

        false
        31.html

        true
        31.html
```

Task 32:

Use equality () and strict equality (=) operators to compare different data types and note the differences.

false	32.html:13
false	32.html:14

Task 33:

Compare two strings lexicographically.

```
"john"is lexigraphically greater than"alex" 33.html:15
```

Task 34:

Use the inequality (!=) and strict inequality (!==) operators to compare values.

true	<u>34.</u>
true	34.

Task 35:

Compare null and undefined using both == and ===.

true	35.html:11
false	35.html:12

Task 36:

Write an if statement that checks if a number is even or odd.



Task 37:

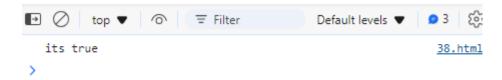
Use nested if statements to classify a number as negative, positive, or zero.

```
<html>
        <title>
           task
        </title>
   </head>
   <body>
       <script>
            var a=-2;
            if(a==null){
                console.log("the given number is invalid");
             else{
                if(a>0){
                console.log("the given number is positive");
             }if(a<0){
                console.log("the given number is negative");
             }else{
                console.log("the given number is zero");
       </script>
    </body>
```



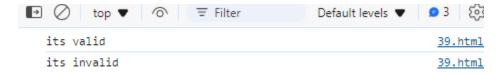
Task 38:

Use the conditional (ternary) operator $\ref{eq:condition}$ to rewrite a simple if...else statement.



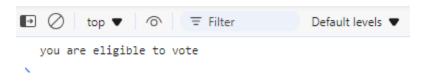
Task 39:

Check the validity of a variable using the? operator.



Task 40:

Use the conditional operator to assign a value to a variable based on a condition.



Task 41:

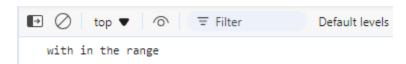
Evaluate various combinations of logical operators (&&, ||, !).

```
true <u>41.html</u>
false <u>41.html</u>
>
```

Task 42:

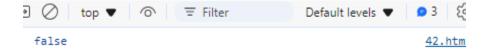
Use logical operators to write a condition that checks if a number is in a given range.

```
<title>
        task
    </title>
</head>
    <script>
        var a;
           a=105;
           if((a<500)||(a>0)){
             console.log("with in the range");
           else if((a<500)&&(a>0)){
            console.log("with in the range");
           else{
            console.log("Not in the range");
           }
    </script>
</body>
```



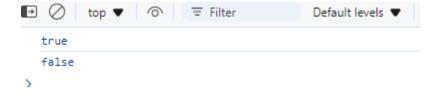
Task 43:

Use the NOT (!) operator to invert a boolean value.



Task 44:

Evaluate the short-circuiting nature of logical operators.



Task 45:

Compare two non-boolean values using logical operators and observe the result

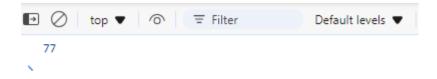
code:

output:



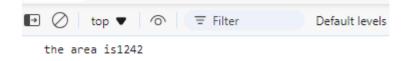
Task 46:

Write a function that takes two numbers as arguments and returns their sum.



Task 47:

Create a function that calculates the area of a rectangle.



Task 48:

Declare a function without parameters and call it.

