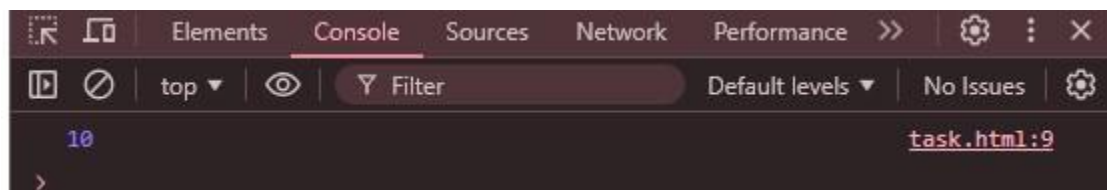


THE MODERN MODE,'USE STRICT'

TASK-11

```
<!DOCTYPE html>
<html lang = "en">
  <head>
    <title>MERN Practice</title>
  </head>
  <body>
    <script>
      x = 10;
      console.log(x);
    </script>
  </body>
</html>
```

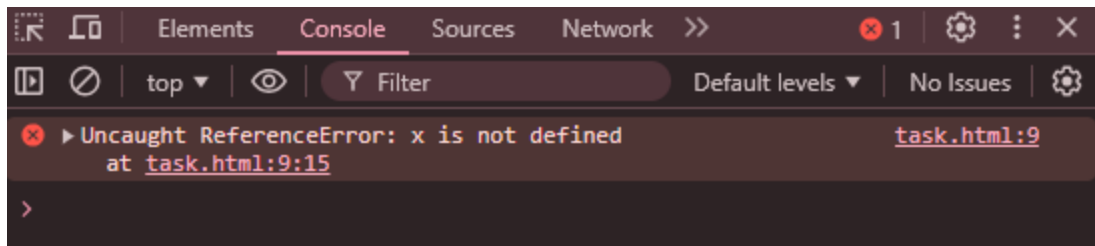
OUTPUT:



TASK-12

```
<!DOCTYPE html>
<html lang = "en">
  <head>
    <title>MERN Practice</title>
  </head>
  <body>
    <script>
      'use strict';
      x = 10;
      console.log(x);
    </script>
  </body>
</html>
```

OUTPUT:



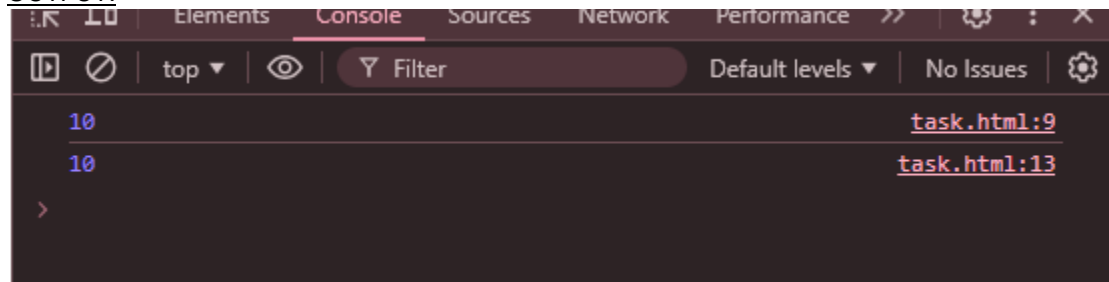
TASK-14

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>MERN Practice</title>
  </head>
  <body>
    <script>
      x = 10;
      console.log( x);

      'use strict';
      a = 10;
      console.log(a);

    </script>
  </body>
</html>
```

OUTPUT:

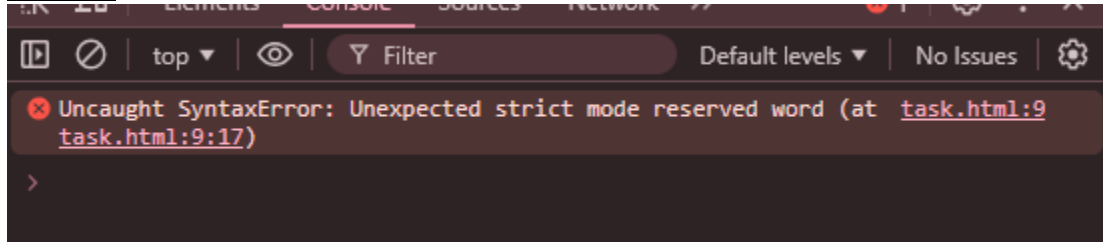


TASK-15

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>MERN Practice</title>
  </head>
  <body>
    <script>
      'use strict';
```

```
    var let = 10;
    console.log(let);
  </script>
</body>
</html>
```

OUTPUT:



ARROW FUNCTIONS

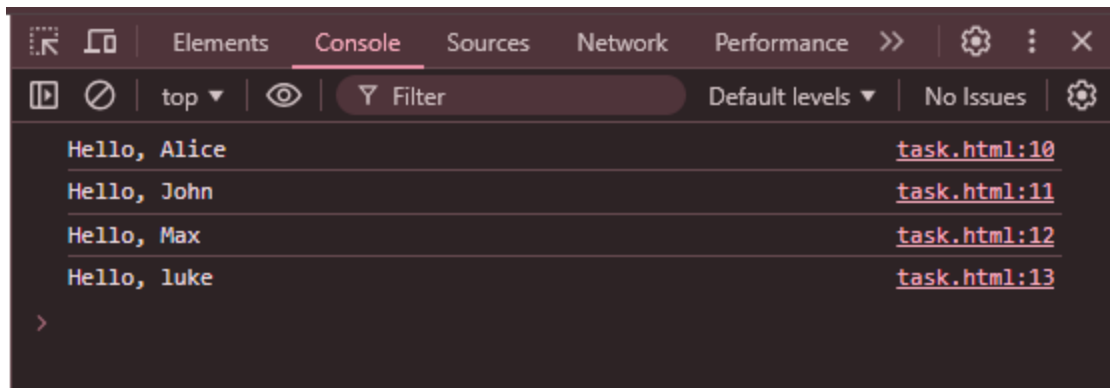
TASK-51

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>MERN Practice</title>
  </head>
  <body>
    <script>
      let greet = (name) => `Hello, ${name}`;

      console.log(greet("Alice"));
      console.log(greet("John"));
      console.log(greet("Max"));
      console.log(greet("luke"));

    </script>
  </body>
</html>
```

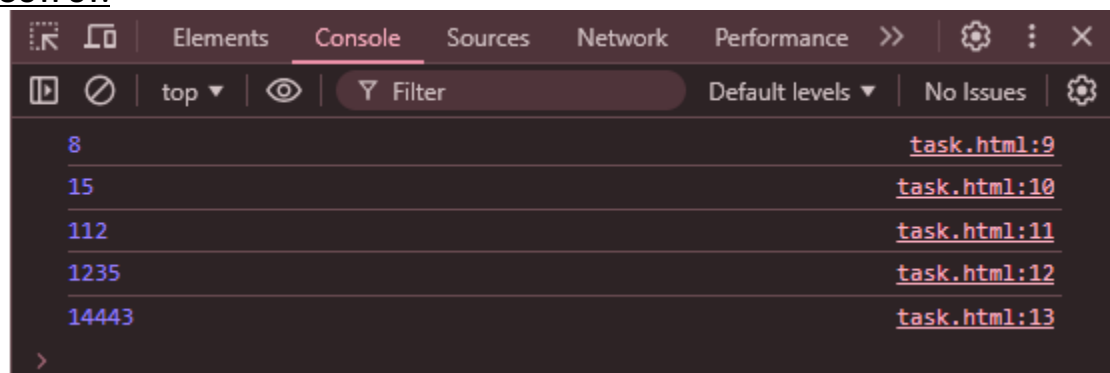
OUTPUT:



TASK-52

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>MERN Practice</title>
  </head>
  <body>
    <script>
      let add = (a,b) => a + b;
      console.log(add(5,3));
      console.log(add(6,9));
      console.log(add(22,90));
      console.log(add(345,890));
      console.log(add(4567,9876));
    </script>
  </body>
</html>
```

OUTPUT:



TASK-53

```
<!DOCTYPE html>
```

```
<html lang="en">
  <head>
    <title>MERN Practice</title>
  </head>
  <body>
    <script>
      let isEven = (num) => num % 2 == 0;
      console.log(isEven(65));
      console.log(isEven(5));
      console.log(isEven(6));

    </script>
  </body>
</html>
```

OUTPUT:

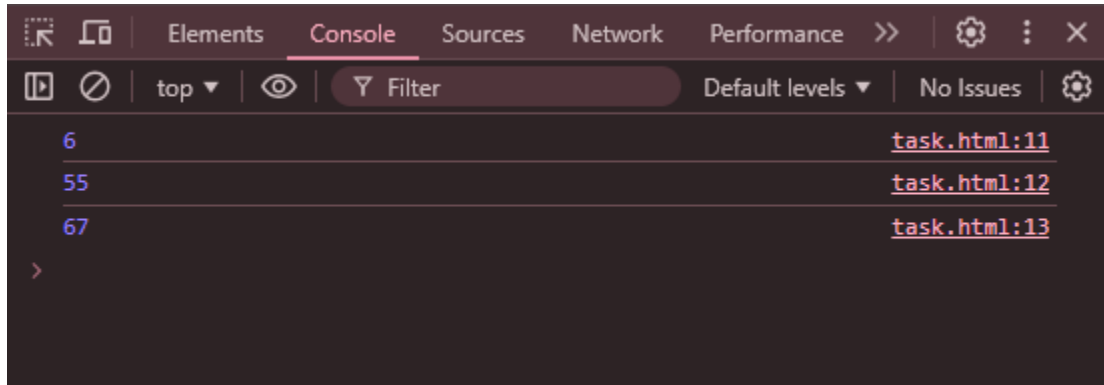


TASK-54

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>MERN Practice</title>
  </head>
  <body>
    <script>
      let maxVal = (num1,num2) => {
        return (num1 > num2)?num1:num2;
      }
      console.log(maxVal(5,6));
      console.log(maxVal(55,6));
      console.log(maxVal(5,67));

    </script>
  </body>
</html>
```

OUTPUT:



DATA TYPES:

TASK-21

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>JavaScript Data Types and Scope Example</title>
</head>
<body>

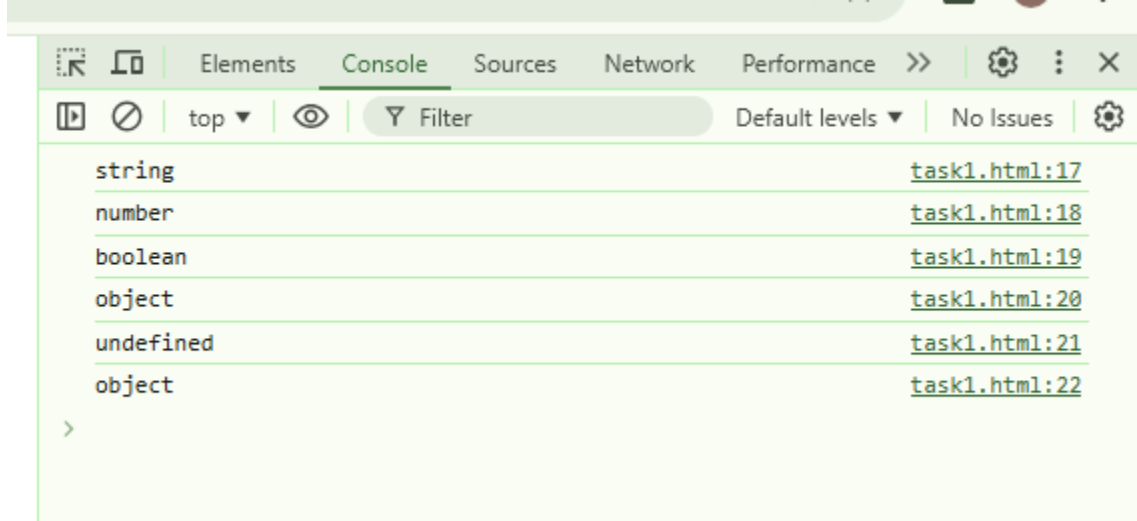
  <script>
    let name = "Welcome All";
    let number = 42;
    let bool = true;
    let x = null;
    let e;
    let myObject = { name: "Luke", age: 20 };
  </script>
</body>
</html>
```

TASK-22

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>JavaScript Data Types and Scope Example</title>
</head>
<body>

  <script>
    let name = "Welcome All";
    let number = 42;
    let bool = true;
    let x = null;
    let e;
    let myObject = { name: "Luke", age: 20 };
    console.log(typeof name);
    console.log(typeof number);
    console.log(typeof bool);
    console.log(typeof x);
    console.log(typeof e);
    console.log(typeof myObject);
  </script>
</body>
</html>
```

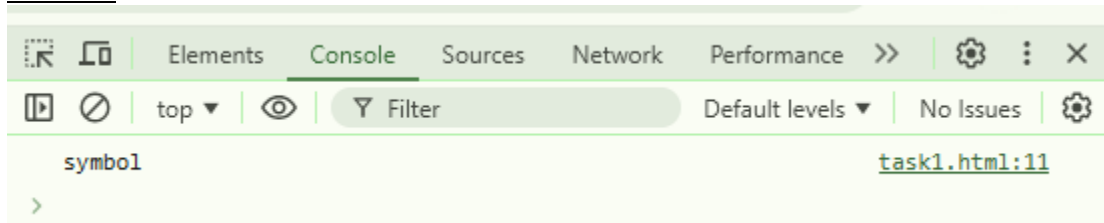
OUTPUT:



TASK-23

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let value = Symbol('unique');
  console.log(typeof value);
</script>
</body>
</html>
```

OUTPUT:



TASK-24

```
<!DOCTYPE html>
<html lang="en">
```

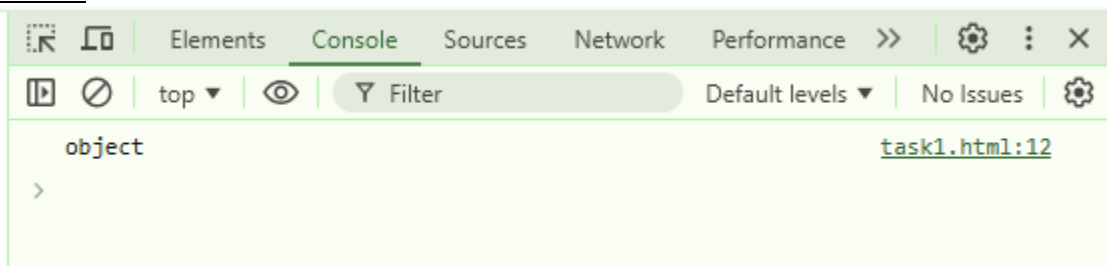


```

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let address = null;
  console.log(typeof address);
</script>
</body>
</html>

```

OUTPUT:



TASK-25

VAR:

A variable declared with its scope to the entire function where it is declared.

LET:

A variable declared with its scope to the nearest block.

BASIC OPERATORS,MATHS

TASK-26

IMPLICIT CONVERSION

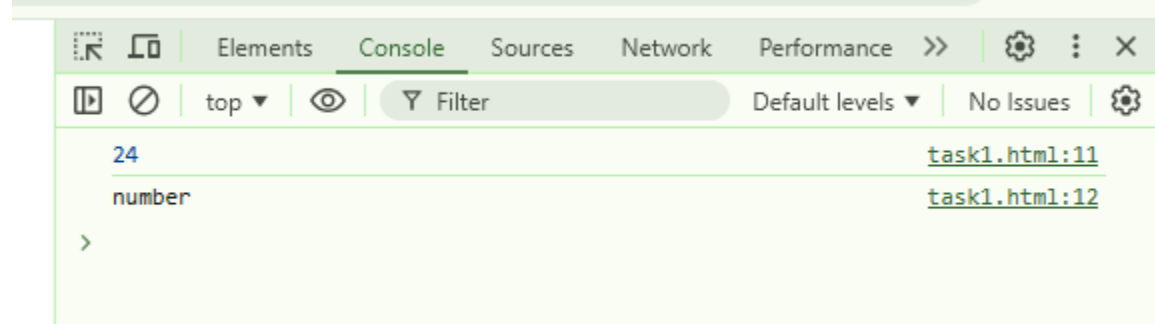
```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>JavaScript</title>
</head>
<body>

  <script>
    let str = "24";
    let number = str * 1;
    console.log(number);
    console.log(typeof number);
  </script>

```

```
</body>
</html>
```

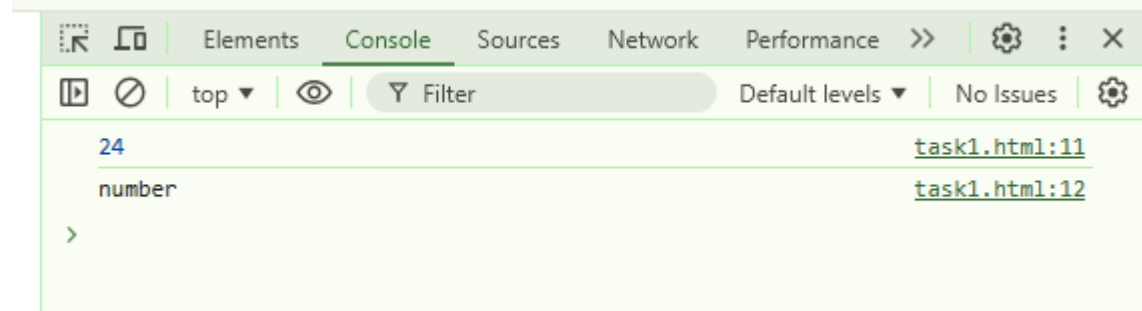


EXPLICIT CONVERSION:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>JavaScript</title>
</head>
<body>

  <script>
    let str = "24";
    let num = Number(str);
    console.log(num);
    console.log(typeof num);
  </script>
</body>
</html>
```

OUTPUT:



TASK-27

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

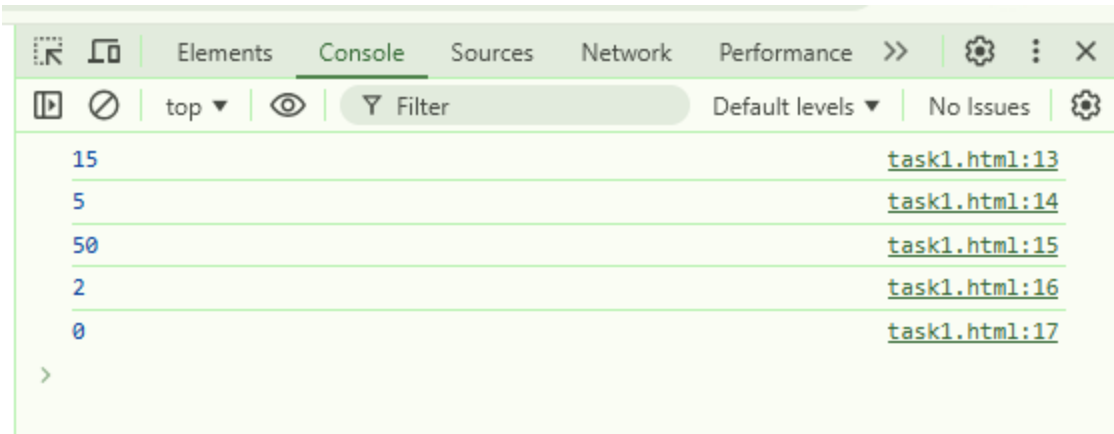
```
<title>PRACTICE</title>
</head>
<body>
<script>
  let boolvalue = true;
  let stringvalue = String(boolvalue);
  document.write(stringvalue);
  let bool = false;
  let string = bool.toString();
  document.write(string);
</script>
</body>
</html>
```

true
false

TASK-28

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let a = 10;
  let b = 5;
  console.log(a + b);
  console.log(a - b);
  console.log(a * b);
  console.log(a / b);
  console.log(a % b);
</script>
</body>
</html>
```

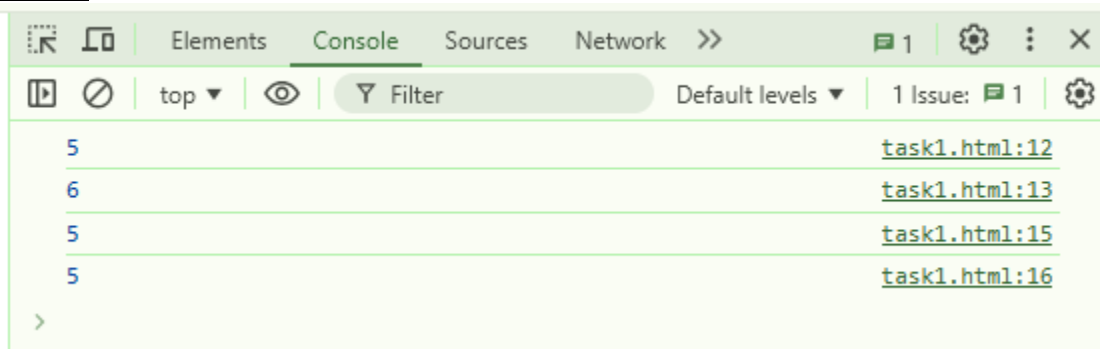
OUTPUT:



TASK-29

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let a = 5;
  console.log(a++);
  console.log(a);
  let b = 6;
  console.log(--b);
  console.log(b);
</script>
</body>
</html>
```

OUTPUT:



TASK-30

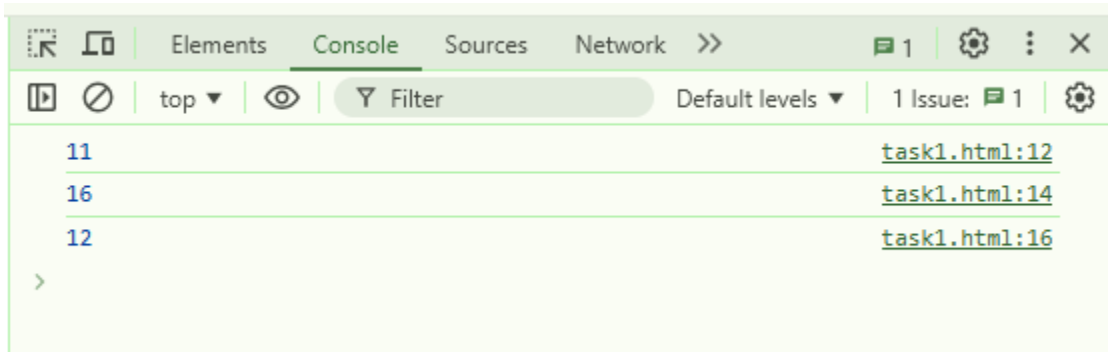
```
<!DOCTYPE html>
```

```

<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let result = 5 + 3 * 2;
  console.log(result);
  let result1 = (5 + 3) * 2;
  console.log(result1);
  let result2 = 5 % 3 * 2 + 8;
  console.log(result2);
</script>
</body>
</html>

```

OUTPUT:



COMPARISONS:

TASK-31

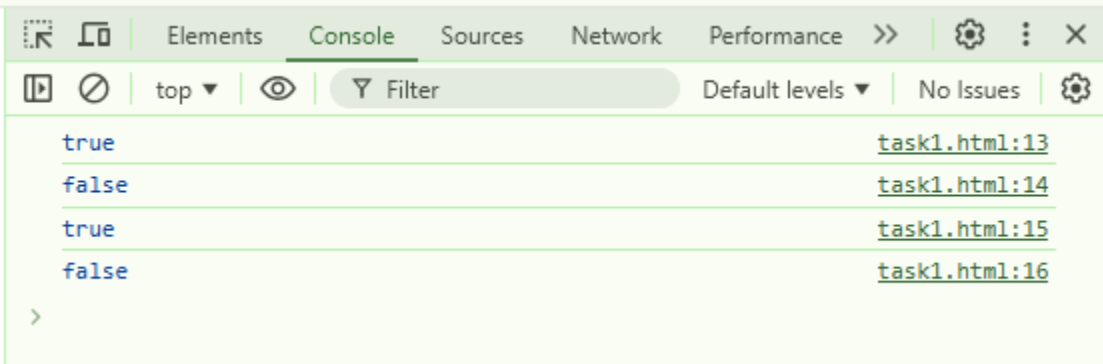
```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let num1 = 12;
  let num2 = 4;
  console.log(num1 > num2);
  console.log(num1 < num2);
  console.log(num1 >= num2);
  console.log(num1 <= num2);

```

```
</script>
</body>
</html>
```

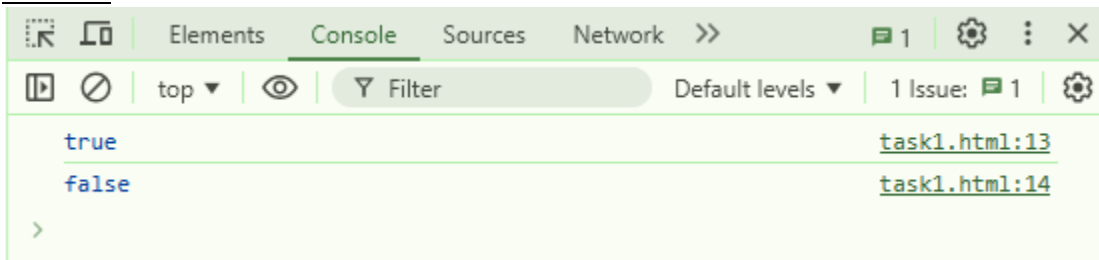
OUTPUT:



TASK-32

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let num1 = "42";
  let num2 = 42;
  console.log(num1==num2);
  console.log(num1===num2);
</script>
</body>
</html>
```

OUTPUT:

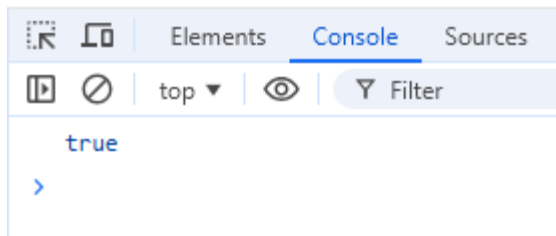


TASK-33

```
html>
  <head>
```

```
</head>
<body>
  <script>
    let s1="cookies";
    let s2="cOOkies";
    console.log(s1>s2);
  </script>
</body>
</html>
```

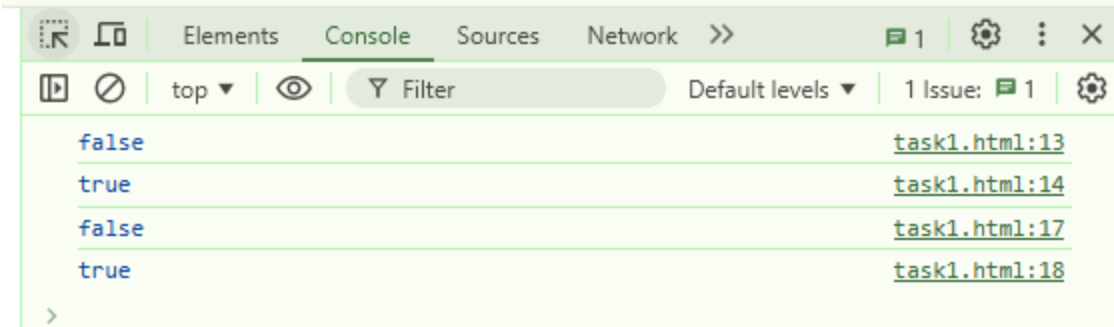
OUTPUT:



TASK-34

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
  <script>
    let num1 = "42";
    let num2 = 42;
    console.log(num1!=num2);
    console.log(num1!==num2);
    let num3 = null;
    let num4 = undefined;
    console.log(num3!=num4);
    console.log(num3!==num4);
  </script>
</body>
</html>
```

OUTPUT:

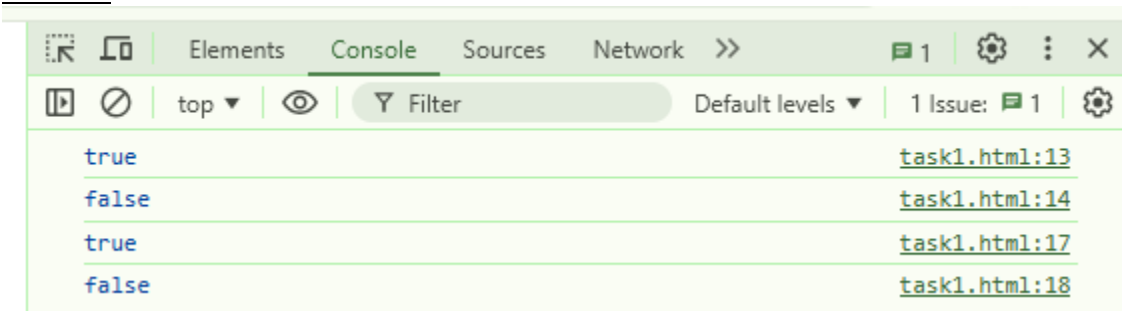


TASK-35

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let num1 = "42";
  let num2 = 42;
  console.log(num1==num2);
  console.log(num1===num2);
  let num3 = null;
  let num4 = undefined;
  console.log(num3==num4);
  console.log(num3===num4);

</script>
</body>
</html>
```

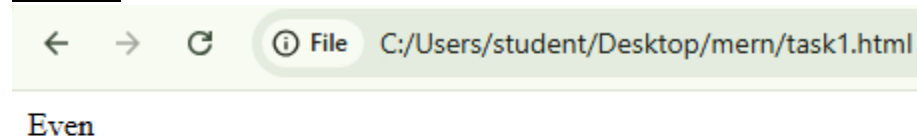
OUTPUT:



CONDITIONAL BRANCHING:

TASK-36

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let num = 10;
  if(num % 2 == 0)
  {
    document.write("Even");
  }
  else{
    document.write("Odd");
  }
</script>
</body>
</html>
```

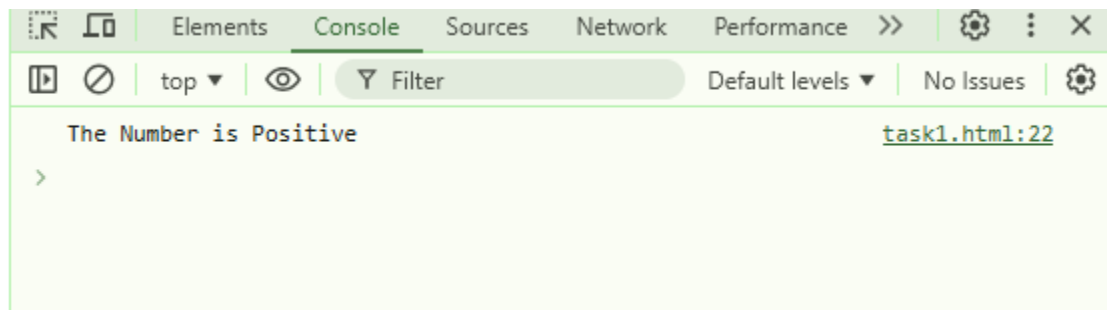
OUTPUT:**TASK-37**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let number = 20;
  if (number == 0)
  {
    console.log("The Number is Zero");
  }
}
```

```
}
  else if(number < 10)
  {
    console.log("The Number is Negative");
  }
  else
  {
    console.log("The Number is Positive");
  }

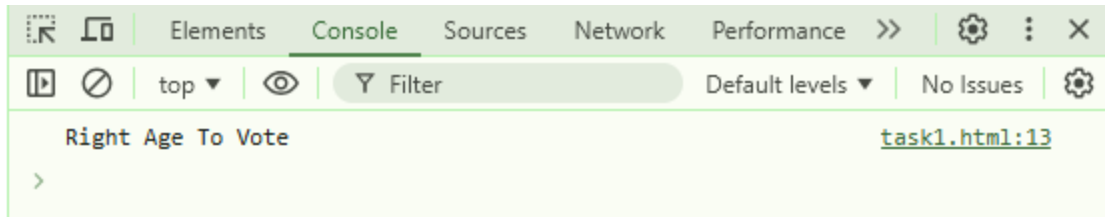
</script>
</body>
</html>
```

OUTPUT:



TASK-38

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  let age = 20;
  let result = (age > 18) ? "Right Age To Vote" : "Not To Vote";
  console.log(result);
</script>
</body>
</html>
```



TASK-39

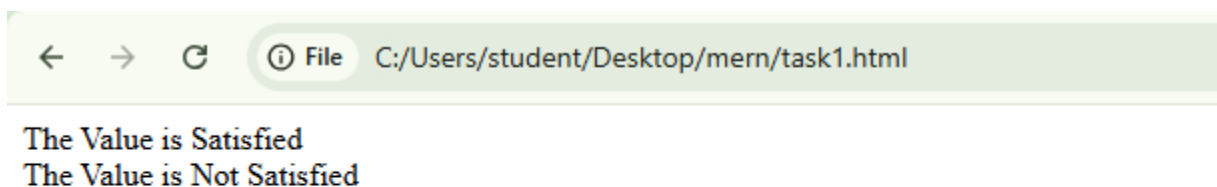
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PRACTICE</title>
</head>
<body>
<script>
  var a = 10;
  var b = 20;

  var result = (a > 5 && b < 25) ? "The Value is Satisfied" : "The Value is Not Satisfied";
  var result1 = ( a > 5 && b < 15) ? "The Value is Satisfied" : "The Value is Not Satisfied";

  document.write(result + "<br>");
  document.write(result1);

</script>
</body>
</html>
```

OUTPUT:



TASK-40

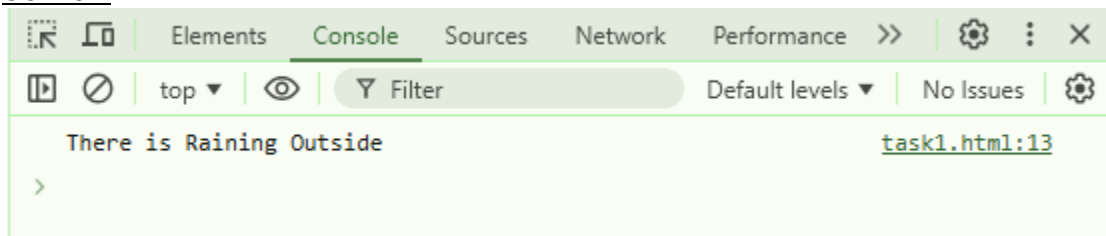
```
<!DOCTYPE html>
<html lang="en">
<head>
```

```

<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>PRACTICE</title>
</head>
<body>
<script>
  var rain = true;
  var result = (rain == true) ? "There is Raining Outside" : "There is no Raining Outside";
  console.log(result);
</script>
</body>
</html>

```

OUTPUT:



LOGICAL OPERATORS:

TASK-41

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>JavaScript Data Types and Scope Example</title>
</head>
<body>

  <script>
    let bool = true;
    let bool1 = false;

    let value = bool && bool1;
    let value1 = bool || bool1;
    let value2 = !bool;

    console.log(value);
    console.log(value1);
    console.log(value2);
  </script>

```

```
</script>
</body>
</html>
```

OUTPUT:



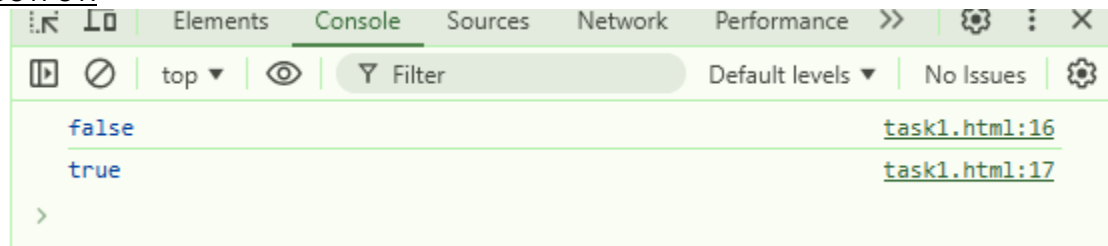
TASK-42

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>JavaScript Data Types and Scope Example</title>
</head>
<body>

  <script>
    let num1 = 23;
    let num2 = 45;
    let result1 = (num1 > 20 && num2 < 43 || num1 > 45);
    let result2 = (num1 < 28 || num2 > 67);
    console.log(result1);
    console.log(result2);
  </script>
</body>
</html>
```

OUTPUT:

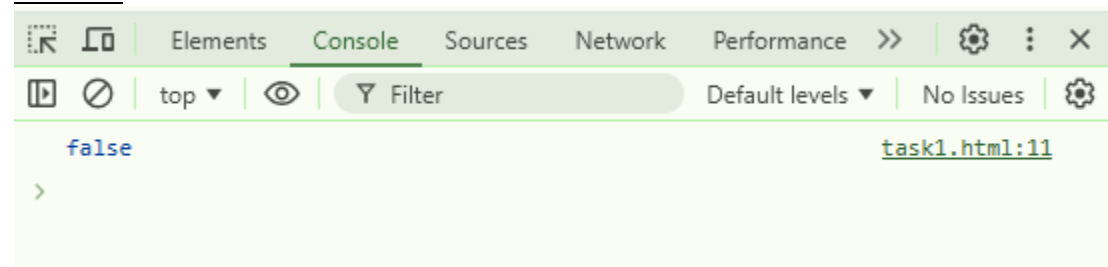


TASK-43

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>JavaScript Data Types and Scope Example</title>
</head>
<body>

  <script>
    let bool = true;
    let value = !bool;
    console.log(value);
  </script>
</body>
</html>
```

OUTPUT:



FUNCTIONS:

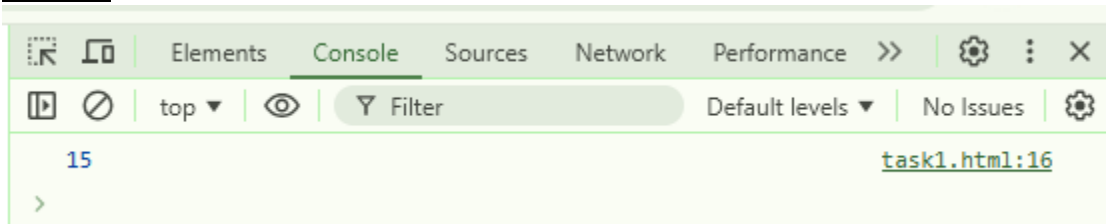
TASK-46

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>JavaScript</title>
</head>
<body>

  <script>
    function Sum (a , b)
    {
      return a + b;
    }
    let a = 10;
    let b = 5;
    let result = Sum( a, b);
    console.log(result);
  </script>
</body>
```

</html>

OUTPUT:

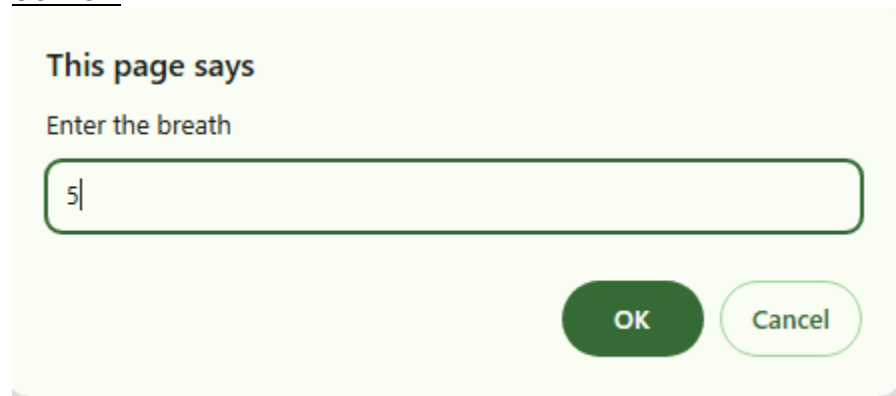


TASK-47

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>JavaScript</title>
</head>
<body>

  <script>
    function Calculate(length,breath)
    {
      return length*breath;
    }
    let length = prompt("Enter the length");
    let breath = prompt("Enter the breath");
    let result = Calculate( length,breath);
    console.log("Area of Rectangle:" +result);
  </script>
</body>
</html>
```

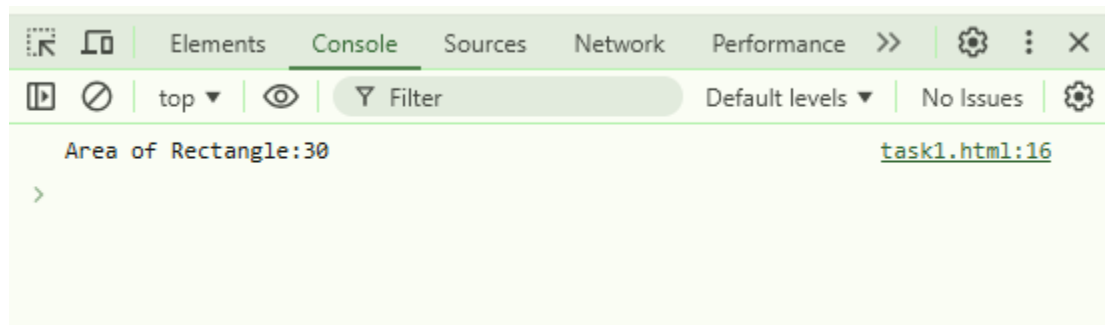
OUTPUT:



This page says

Enter the length

OK Cancel



TASK-48

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>JavaScript</title>
</head>
<body>

  <script>
    function Calculate()
    {
      return "JAVA" + "SCRIPT";
    }

    let result = Calculate();
    console.log(result);
  </script>
</body></html>
```


OUTPUT:



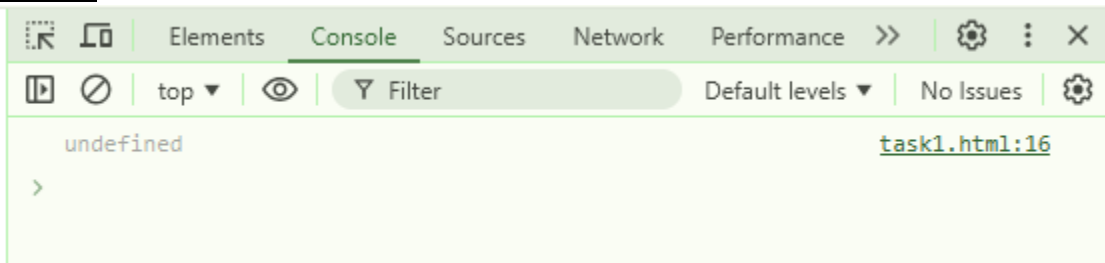
TASK-49

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>JavaScript</title>
</head>
<body>

  <script>
    function Calculate(a,b)
    {

    }
    let a = 5;
    let b= 7;
    let result = Calculate(5,7);
    console.log(result);
  </script>
</body>
</html>
```

OUTPUT:



TASK-50

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>JavaScript</title>
</head>
```

```
<body>

<script>
  function Calculate(name = "john",dept = "CSE")
  {
    return name;
  }
  let name = "Raj";
  let dept = "IT";
  let result = Calculate(name);
  let result1 = Calculate(dept);
  console.log(result);
  console.log(result1);
</script>
</body>
</html>
```

OUTPUT:



