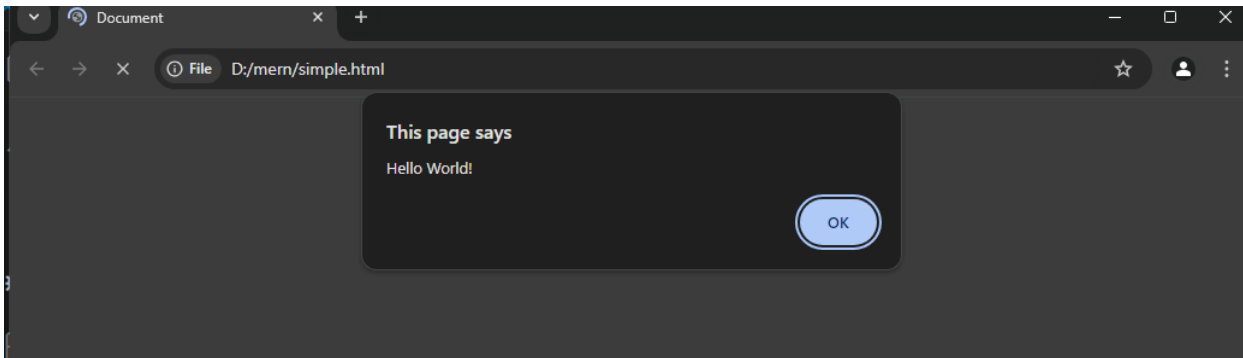


TASK 1:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    alert("Hello World!");
  </script>
</body>
</html>
```

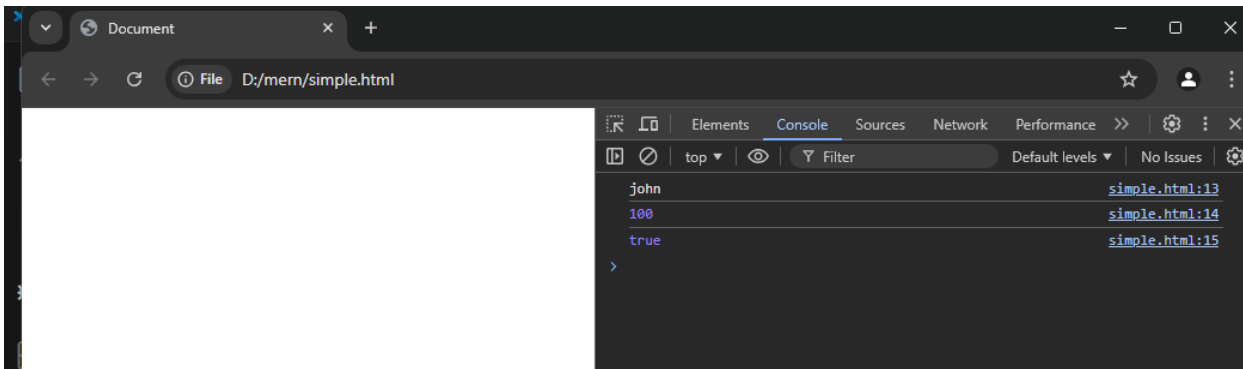
OUTPUT:



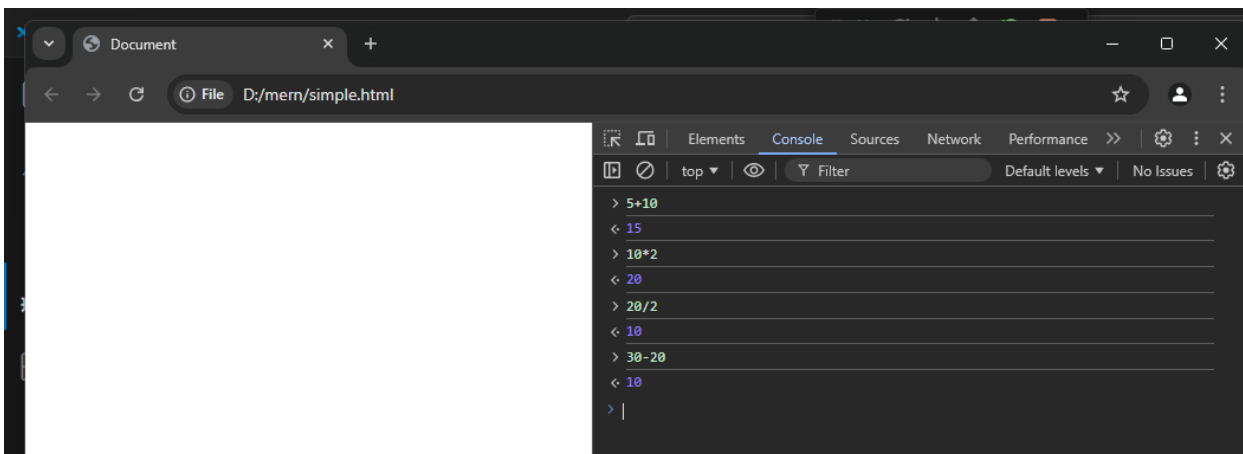
Task 2:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    let str ="john";
    let num=100;
    let bol=true;
    console.log(str);
    console.log(num);
    console.log(bol);
  </script>
</body>
</html>
```

Output:



TASK 3:



TASK 4:

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

```
var str="welcome To ";
var str1="JavaScript";
document.writeln(str+str1);
</script>
</body>
</html>
```

Output:



TASK 5:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var str="welcome To ";
    var num= 200;
    var bol=false;
    document.writeln(typeof str);
    document.writeln(typeof num);
    document.writeln(typeof bol);
  </script>
</body>
</html>
```

OUTPUT:



TASK 6:

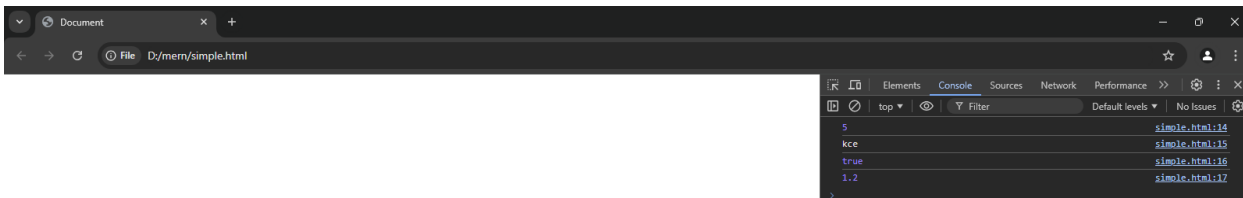
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    //It is single line javascript comment

    /* It is a multiline
    javascript comment
    .
    .
    . */
  </script>
</body>
</html>
```

TASK 7:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var x=5
    var str="kce"
    var val=true
    var a=1.2
    console.log(x)
    console.log(str)
    console.log(val)
    console.log(a)
  </script>
</body>
</html>
```

Output:



Task 8:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    for(var i=0;i<2;i++){
      for(var j=0;j<2;j++){
        console.log(j);
      }
    }
  </script>
</body>
</html>
```

Output:



TASK 9:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var str="john",str2="kennedy",num=200;
    document.writeln(str);
    document.writeln(str2);
    document.writeln(num);
  </script>
</body>
</html>
```

Output:

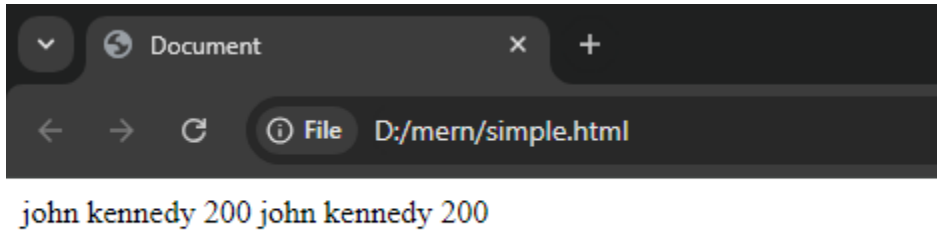


TASK 10:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script>
    var str="john";
    str2="kennedy";
    num=200;
    document.writeln(str);
    document.writeln(str2);
    document.writeln(num);
  </script>
</head>
<body>
  <script>
    var str="john";
    str2="kennedy";
    num=200;
```

```
document.writeln(str);
document.writeln(str2);
document.writeln(num);
</script>
</body>
</html>
```

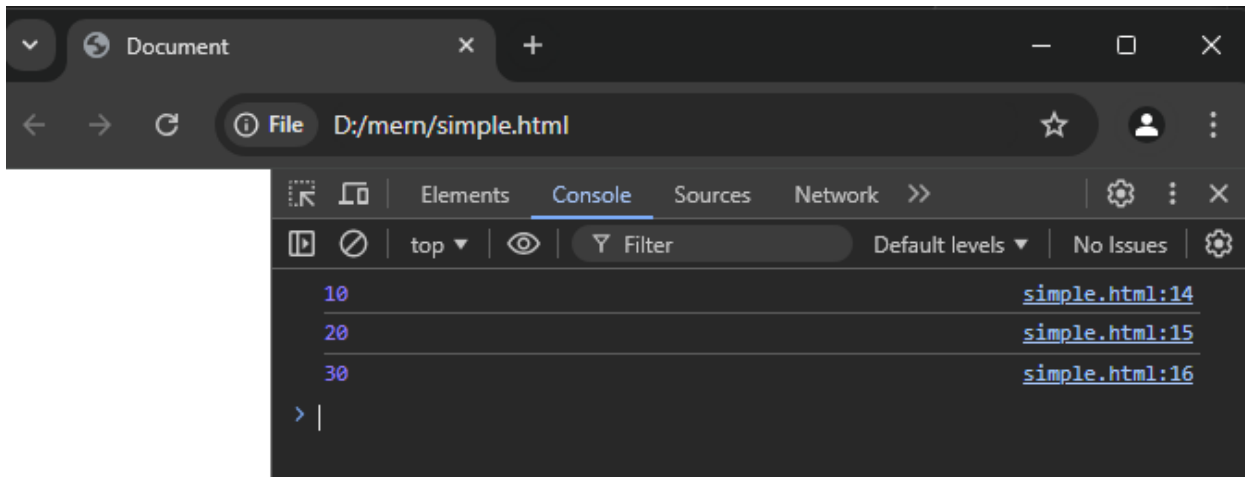
Output:



TASK 16:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var n1=10;
    let n2=20;
    const n3=30;
    console.log(n1);
    console.log(n2);
    console.log(n3);
  </script>
</body>
</html>
```

Output:

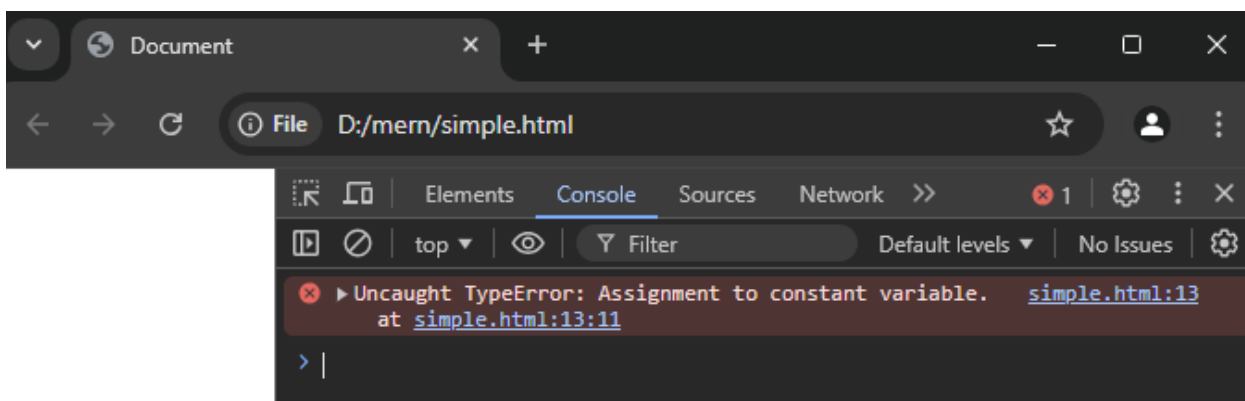


TASK 17:

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

    const n3=30;
    n3=50;
    console.log(n3);
  </script>
</body>
</html>
```

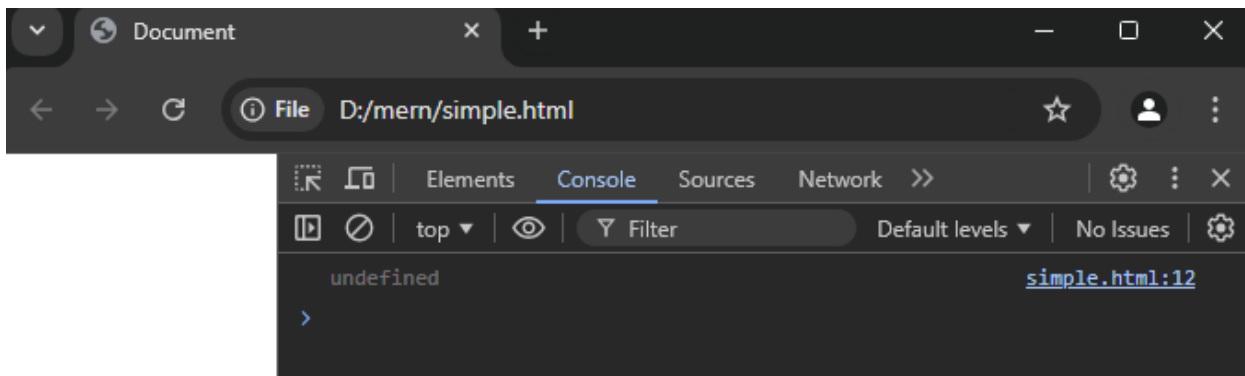
Output:



TASK 18:

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

OUTPUT:



TASK 19:

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

```

<script>
    var str="welcome To ";
    var num= 200;
    var bol=false;
    document.writeln(typeof str);
    document.writeln(typeof num);
    document.writeln(typeof bol);
</script>
</body>
</html>

```

OUTPUT:



Task 20:

1)

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let n=20;
        let n=10;
        console.log(n);
    </script>
</body>
</html>

```

2)

```

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

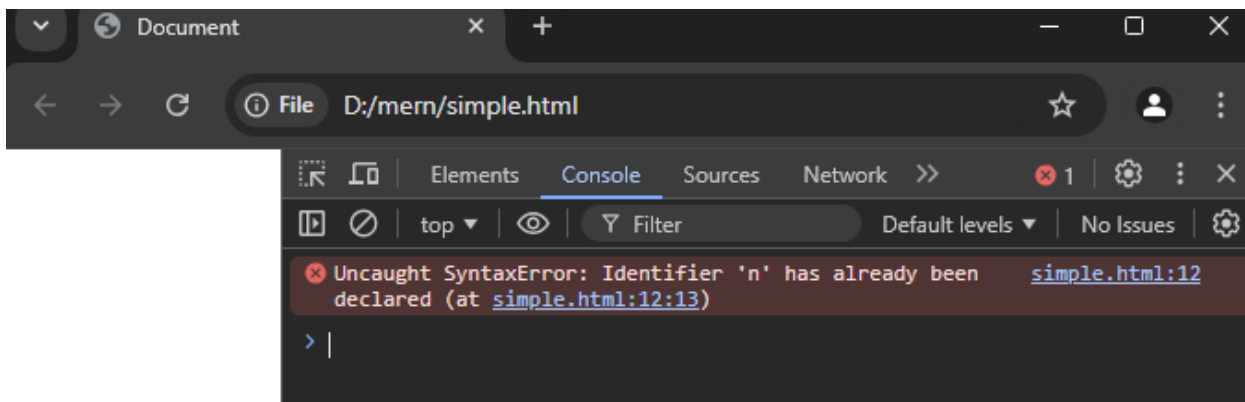
```

```
<title>Document</title>

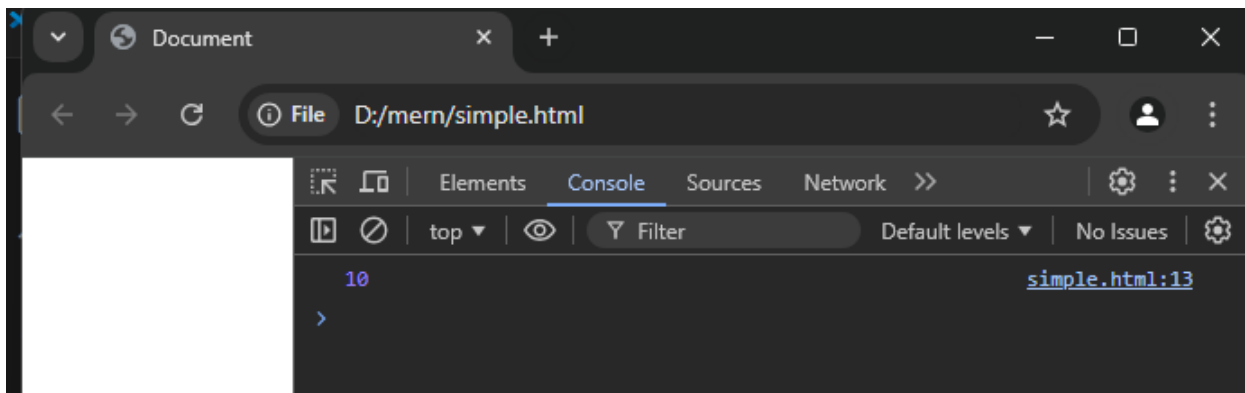
</head>
<body>
  <script>
    var n=20;
    var n=10;
    console.log(n);
  </script>
</body>
</html>
```

Output :

1)



2)

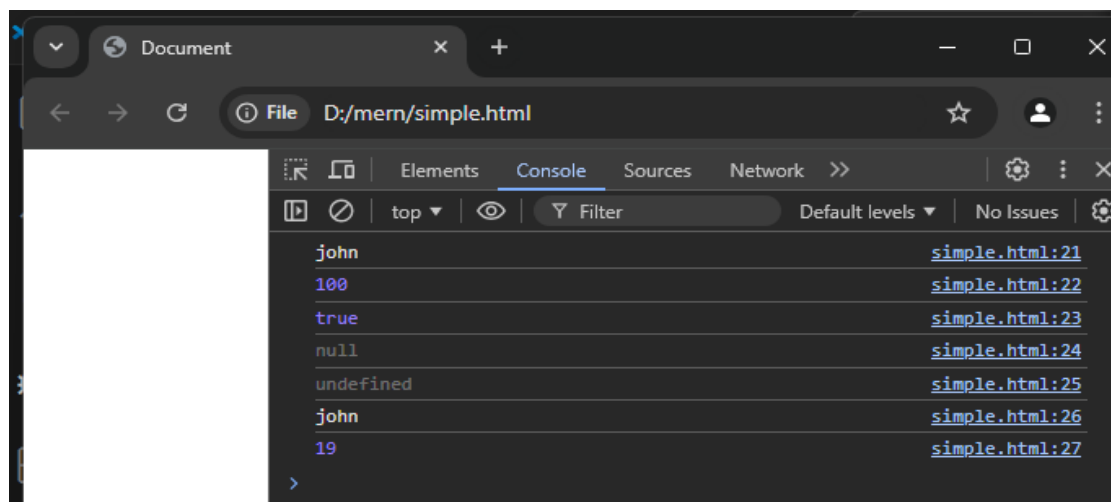


Task 21:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    let str ="john";
    let num=100;
    let bol=true;
    let n=null;
    let m;
    let student =
    {
      name:"john",
      age: 19
    };
    console.log(str);
    console.log(num);
    console.log(bol);
    console.log(n);
    console.log(m);
    console.log(student.name);
    console.log(student.age);

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

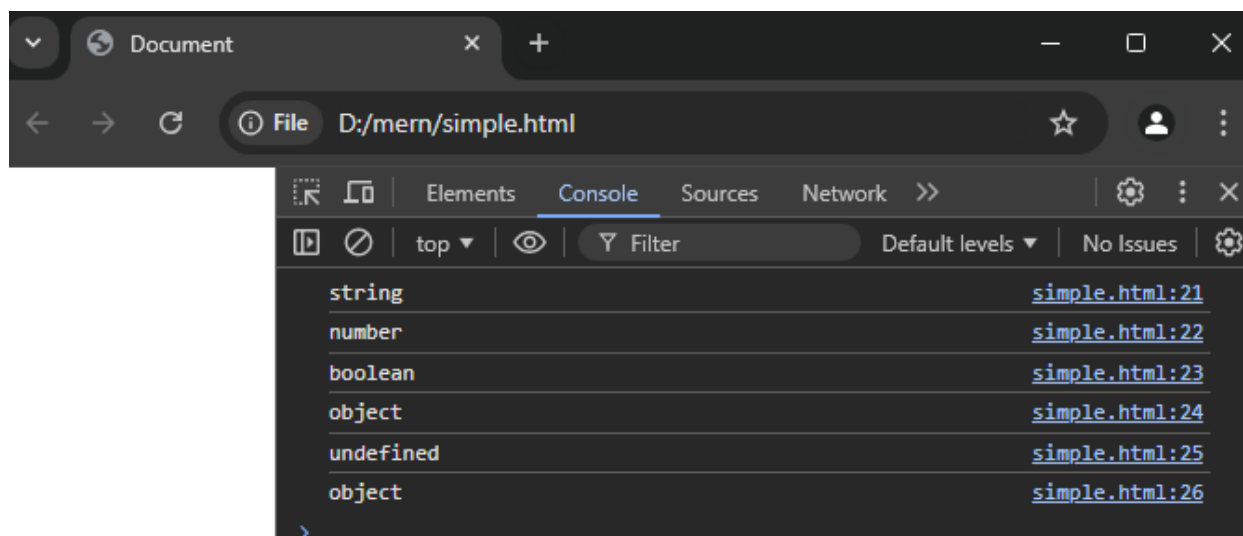
Output:



Task 22:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    let str ="john";
    let num=100;
    let bol=true;
    let n=null;
    let m;
    let student =
    {
      name:"john",
      age: 19
    };
    console.log(typeof str);
    console.log(typeof num);
    console.log(typeof bol);
    console.log(typeof n);
    console.log(typeof m);
    console.log(typeof student);
  </script>
</body>
</html>
```

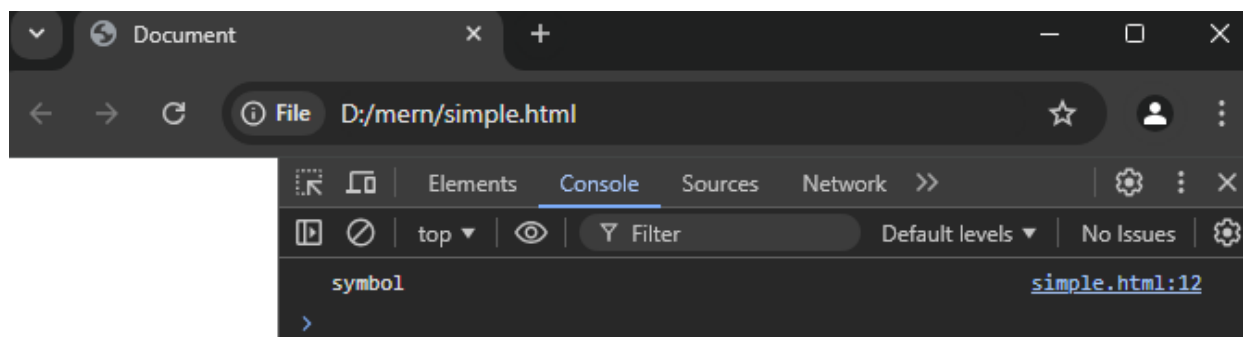
Output:



Task 23:

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

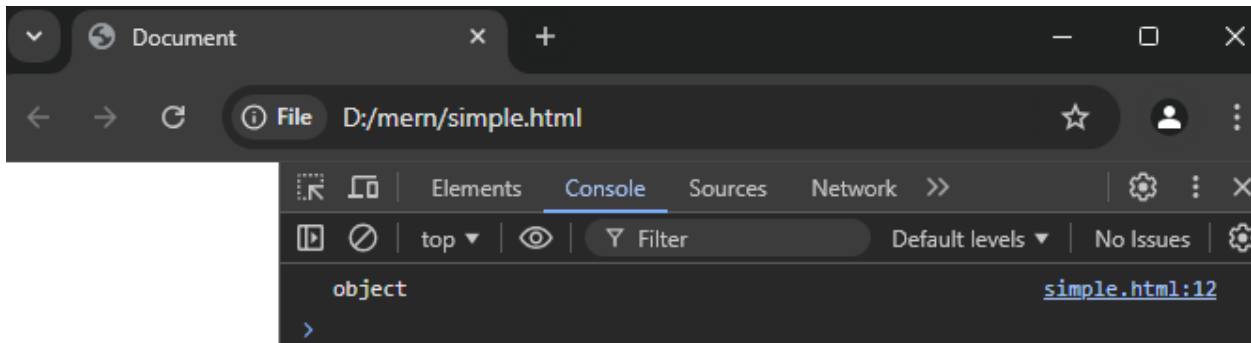
Output:



TASK 24:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var s=null;
    console.log(typeof s);
  </script>
</body>
</html>
```

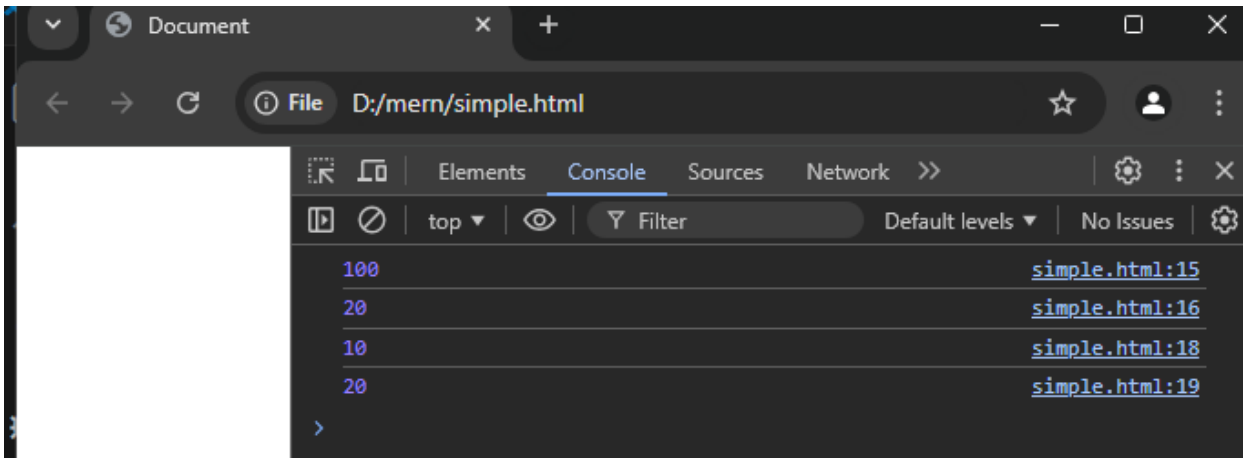
Output:



Task 25:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var a=10;
    var b=20;
    {
      let a=100;
      console.log(a);
      console.log(b);
    }
    console.log(a);
    console.log(b);
  </script>
</body>
</html>
```

Output:



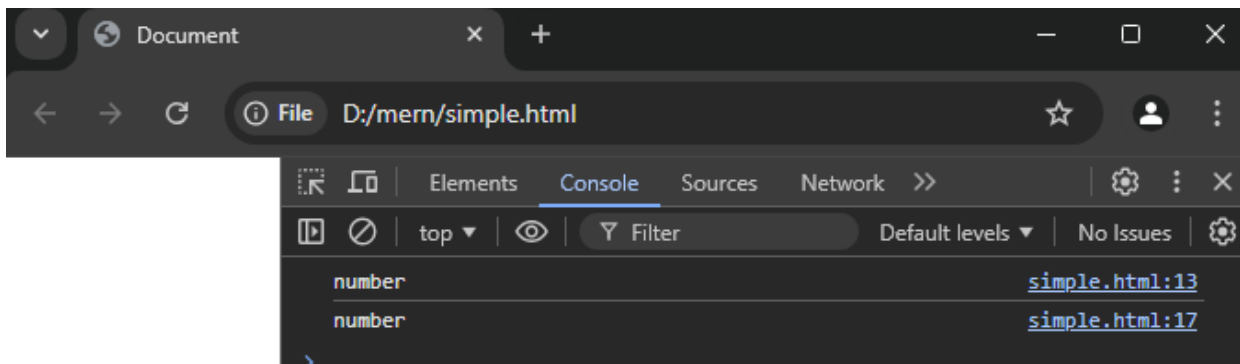
TASK 26;

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

</head>
<body>
  <script>
    //explicit
    var a="10";
    var num=Number(a);
    console.log(typeof num);

    // Implecit
    var num2=a-0;
    console.log(typeof num2);
  </script>
</body>
</html>
```


OUTPUT:



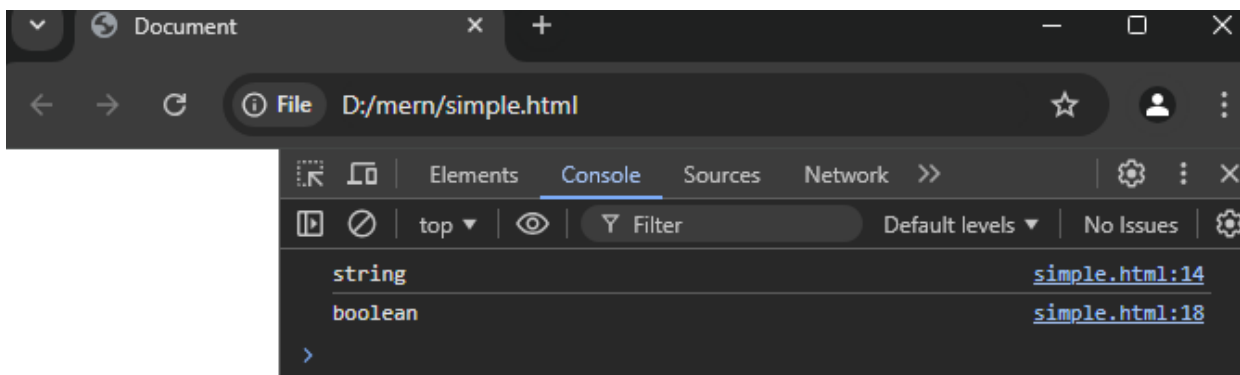
Task 27:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    //boolean to string
    var a=false;
    var num=String(a);
    console.log(typeof num);

    // string to boolean
    var b=Boolean(num);
    console.log(typeof b);

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

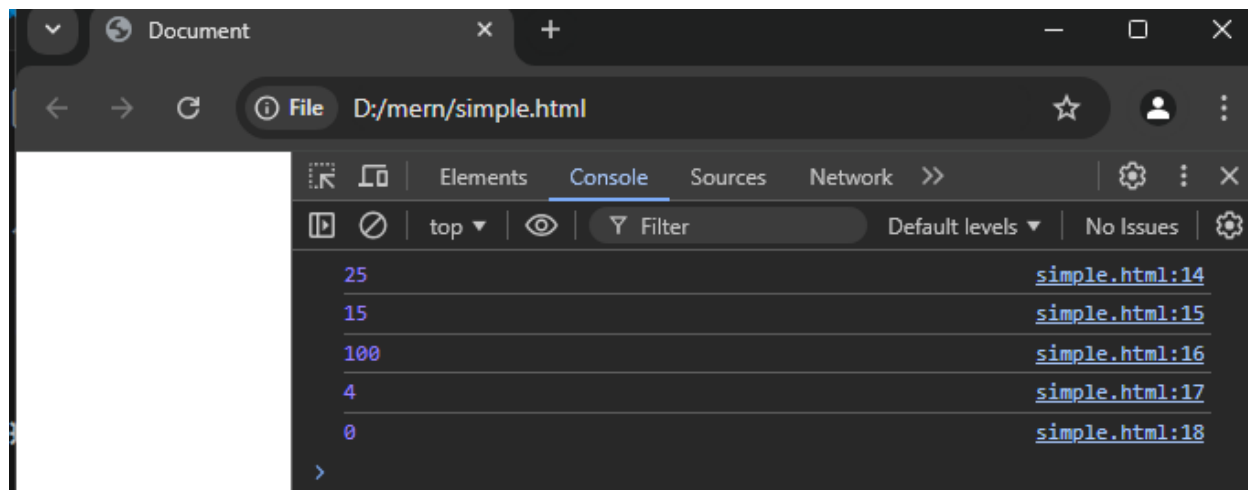
Output:



Task 28:

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

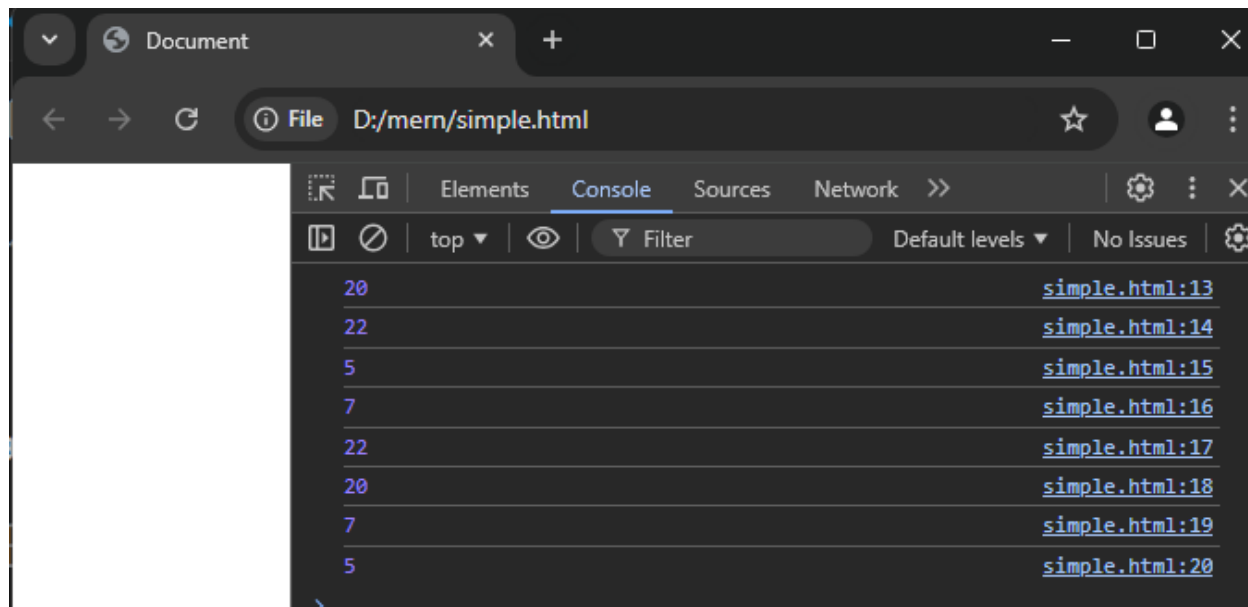
Output:



Task 29:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var a=20;
    var b=5;
    console.log(a++);
    console.log(++a);
    console.log(b++);
    console.log(++b);
    console.log(a--);
    console.log(--a);
    console.log(b--);
    console.log(--b);
  </script>
</body>
</html>
```

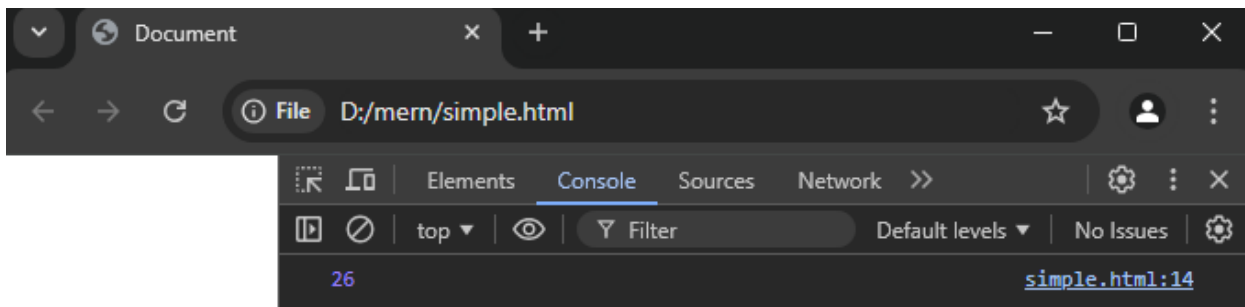
Output:



TASK 30:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var a=20;
    var b=5;
    var c=20;
    console.log(a+b-c*a%c+(a/c));
  </script>
</body>
</html>
```

Output:



Task 31:

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

  <script>

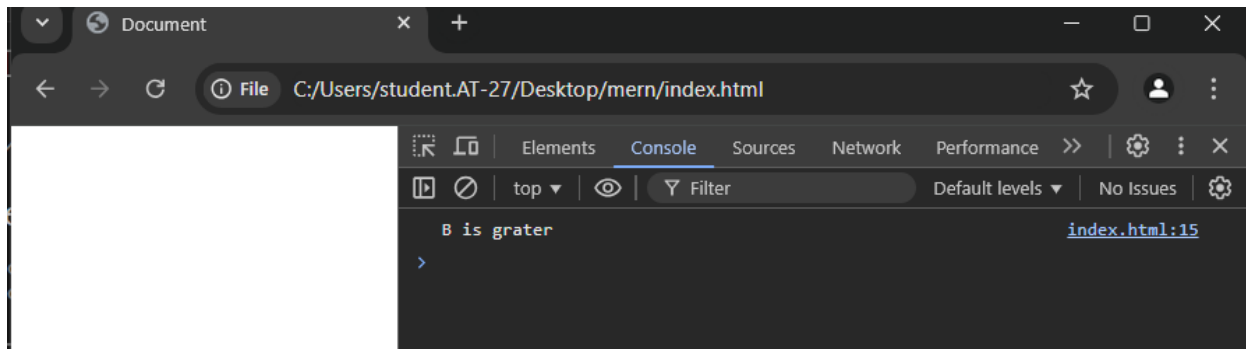
    var a=20;
    var b=30;
    if(a<b){
      console.log("B is greater");
    }
  </script>
</body>
</html>
```

```

    }
    else if(a>b){
        console.log("A is greater");
    }
    else if(a>=b){
        console.log("A is grater than equal to B");
    }
    else if(a<=b){
        console.log("B is greater than equal to A " );
    }
</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>Document</title>
</head>
<body>
    <script>
        var a="20";
        var b=20;

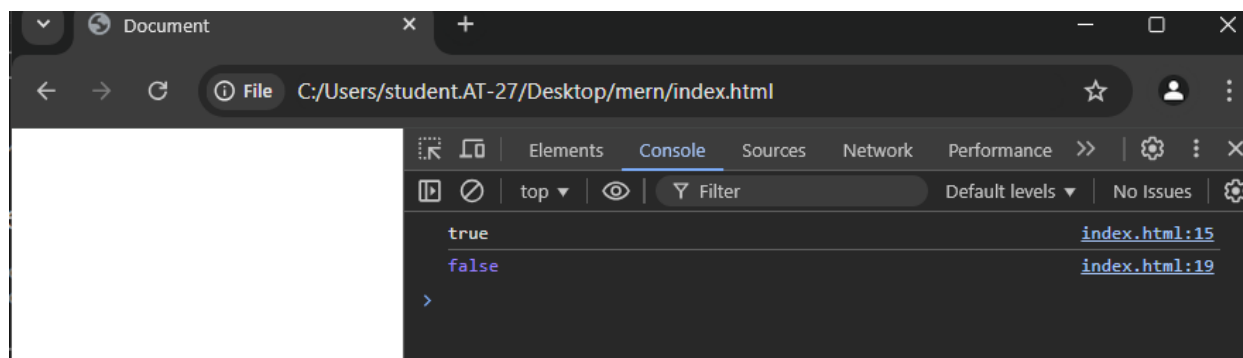
        //equality operator
        var name=(a==b);
        console.log(name);

        //strict equality operator
        var name1=(a===b);
    </script>

```

```
    console.log(name1);  
</script>  
</body>  
</html>
```

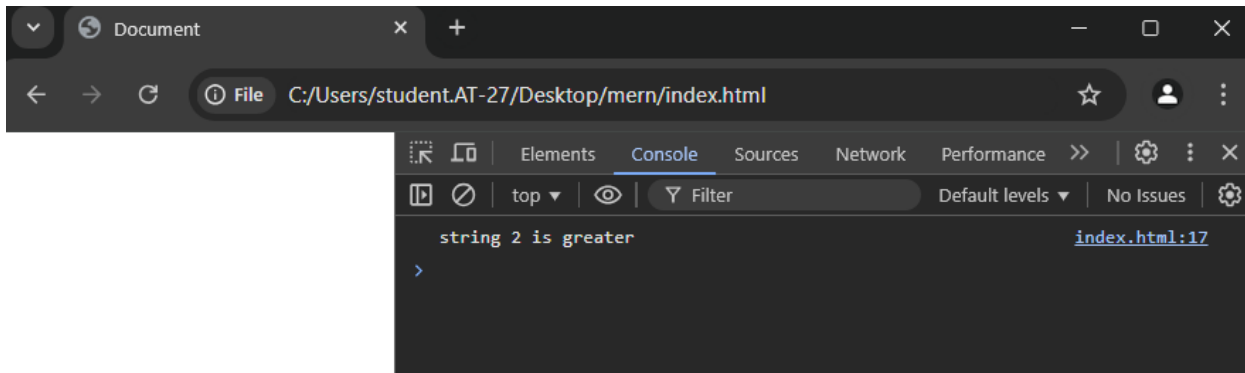
Output:



Task 33:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <title>Document</title>  
</head>  
<body>  
  <script>  
    var a="Apple";  
    var b="apples";  
  
    if(a>b){  
      console.log("string 1 is greater");  
    }  
    else if(a<b){  
      console.log("string 2 is greater");  
    }  
    else{  
      console.log("both strings are equal");  
    }  
  </script>  
</body>  
</html>
```

Output:



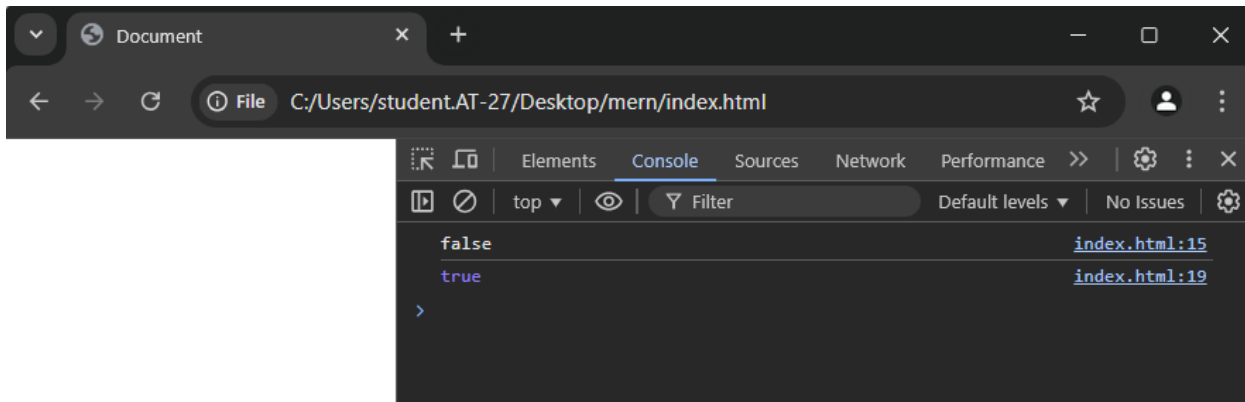
Task 34:

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

    //inequality operator
    var name=(a!=b);
    console.log(name);

    //strict inequality operator
    var name1=(a!==b);
    console.log(name1);
  </script>
</body>
</html>
```

Output:



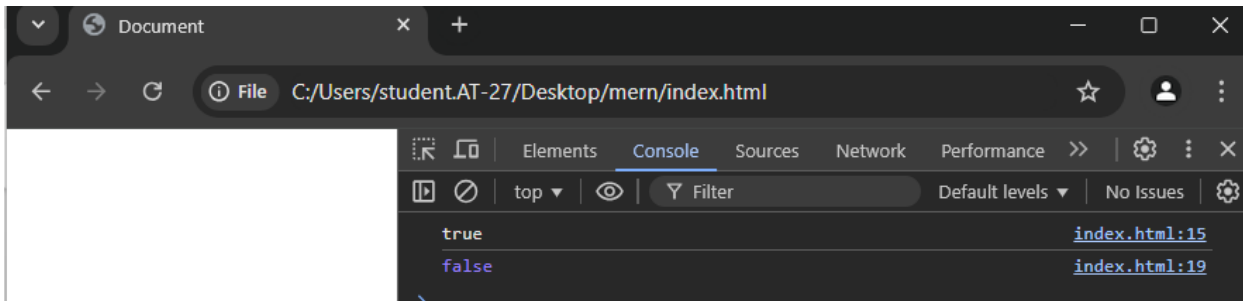
Task 35:

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

    //equality operator
    var name=(a==b);
    console.log(name);

    //strict equality operator
    var name1=(a===b);
    console.log(name1);
  </script>
</body>
</html>
```


Output:

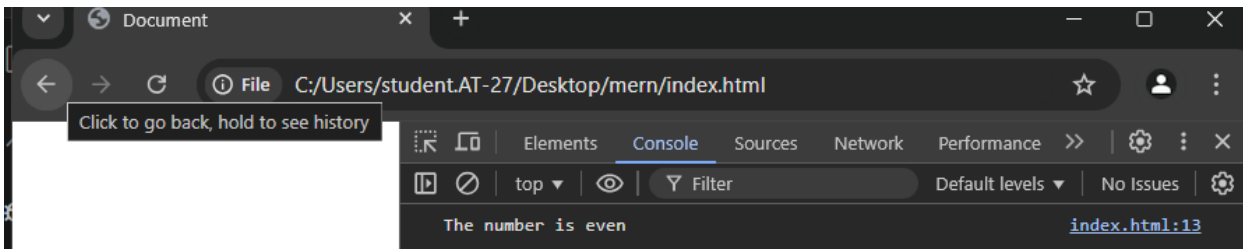


Task 36:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var a=20;
    if(a%2==0){

      console.log("The number is even");
    }
    else{
      console.log("The number is odd");
    }
  </script>
</body>
</html>
```

Output:

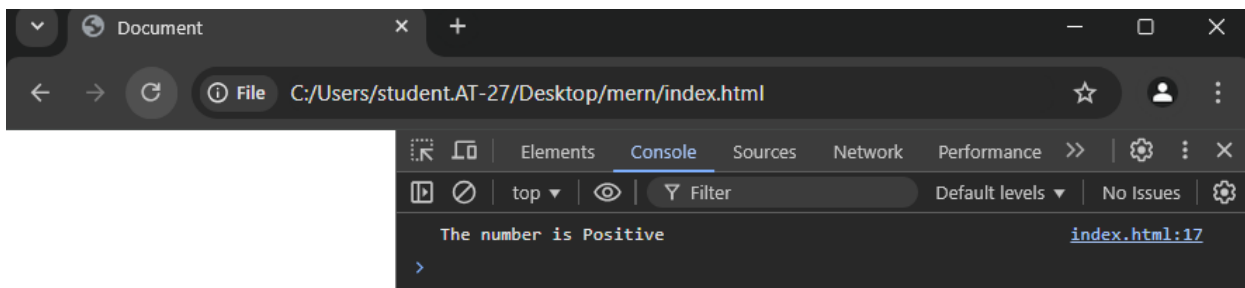


Task 37:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var a=20;
    if(a==0){

      console.log("The number is zero");
    }
    else{
      if(a>0){
        console.log("The number is Positive");
      }
      else{
        console.log("The number is Negative");
      }
    }
  </script>
</body>
</html>
```

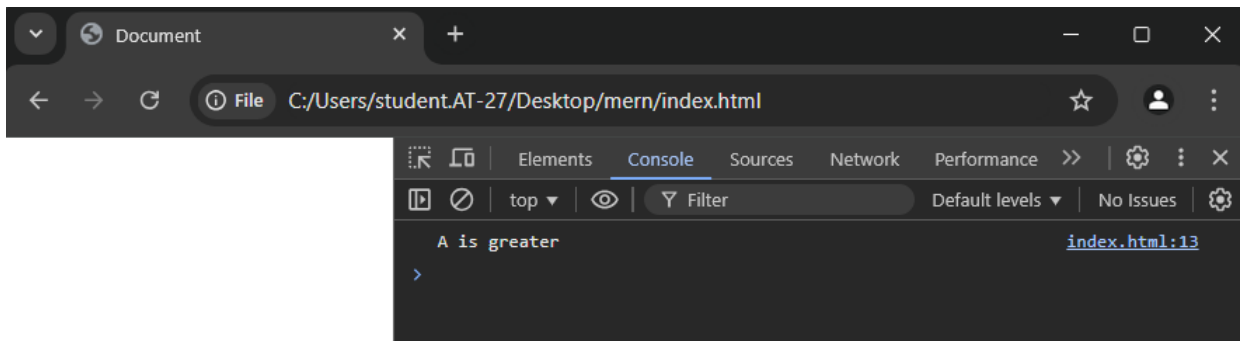
Output:



Task 38:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>
    var a=20;
    var b=10;
    var c=a<b?"B is greater":"A is greater";
    console.log(c);
  </script>
</body>
</html>
```

Output:



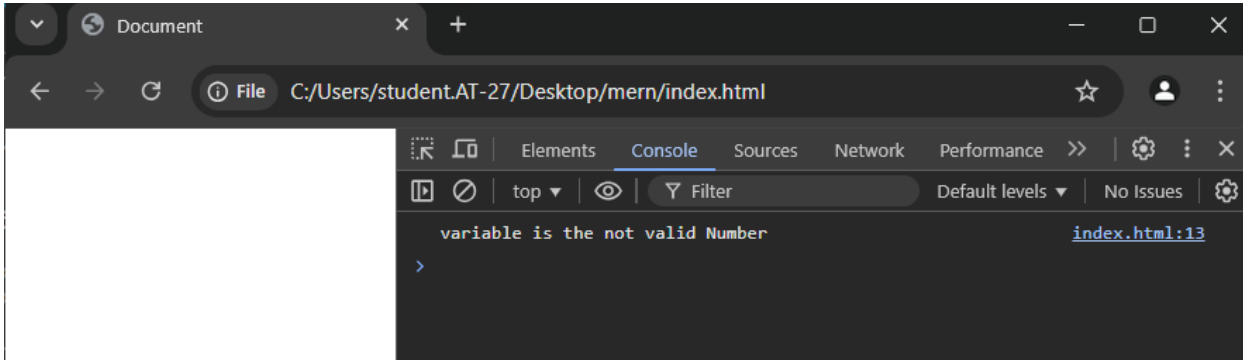
Task 39:

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

    var c(!isNaN(a))?"variable is the valid Number":"variable is the not valid Number";
```

```
    console.log(c);  
  </script>  
</body>  
</html>
```

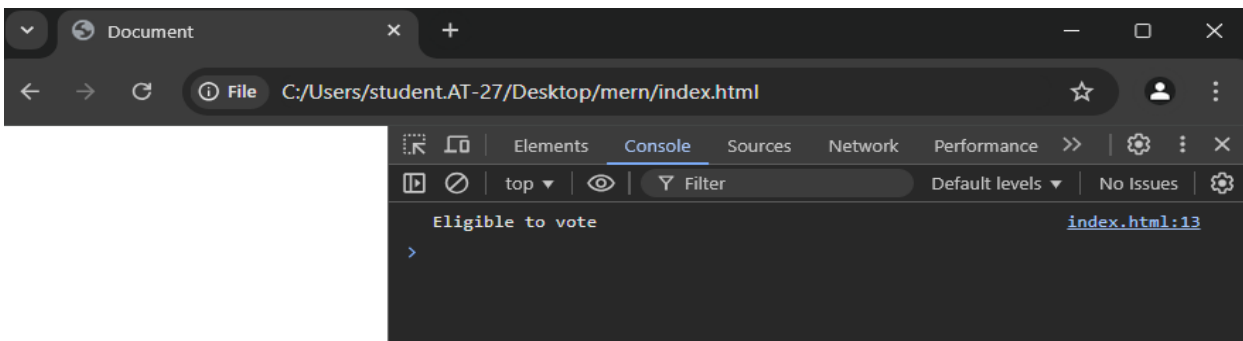
Output:



Task 40:

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Document</title>  
  </head>  
  <body>  
    <script>  
      var a=19;  
  
      var c=a>=18?"Eligible to vote":"NOT Eligible to vote";  
      console.log(c);  
    </script>  
  </body>  
</html>
```

Output:



Task 41:

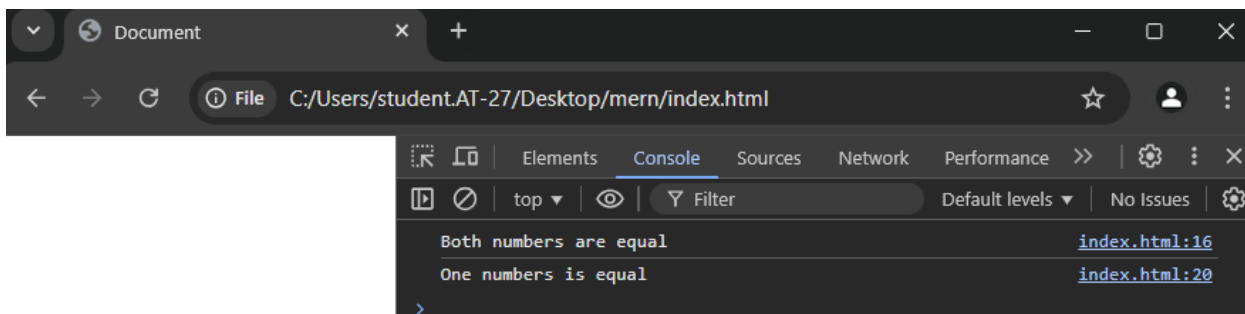
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>

    let a=10;
    let b=20;
    let c=30;
    if(a==10 && b==20){

      console.log("Both numbers are equal");
    }
    if(a==10 || c==20){

      console.log("One numbers is equal");
    }
    if(!a){
      console.log("It is an number");
    }
  </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>Document</title>
</head>
<body>
  <script>

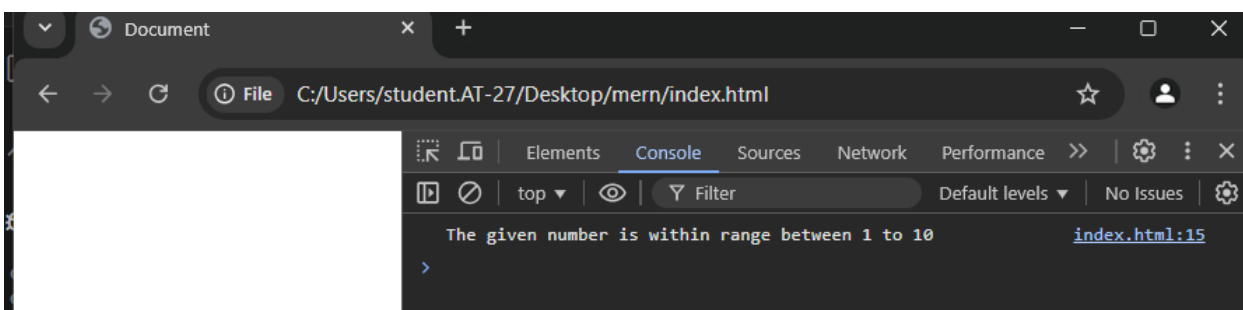
    let a=8;

    if(a>0 && a<=10){

      console.log("The given number is within range between 1 to 10");
    }
    else{

      console.log("Not in range");
    }
  </script>
</body>
</html>
```

Output:



Task 43:

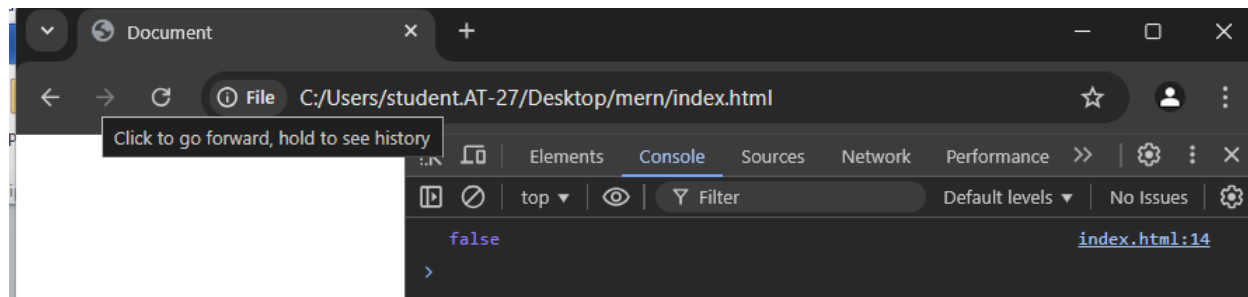
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>

    let a=true;
    let b=!a;

    console.log(b);

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

Output:



Task 44:

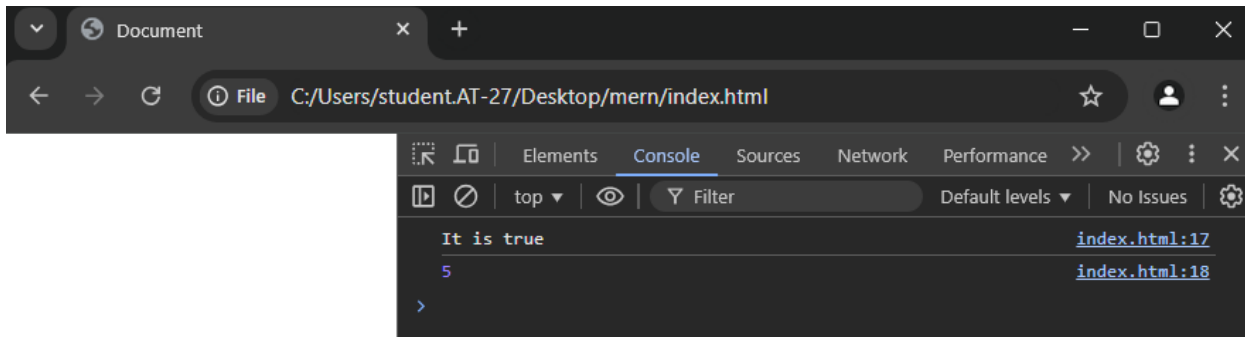
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <script>

    let a=5;
    let b=10;

    let ans= (a&&b)&&"It is true";
    let ans1=(a||b) || "It is true";
```

```
    console.log(ans);  
    console.log(ans1);  
  
    </script>  
</body>  
</html>
```

Output:



Task 45:

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Document</title>  
  </head>  
  <body>  
    <script>  
  
    let a="apple";  
    let b=10;  
    let result=a&&b;  
    console.log(result);  
  
    let result1=a||b;  
    console.log(result1);  
    </script>  
  </body>  
</html>
```


Output:

