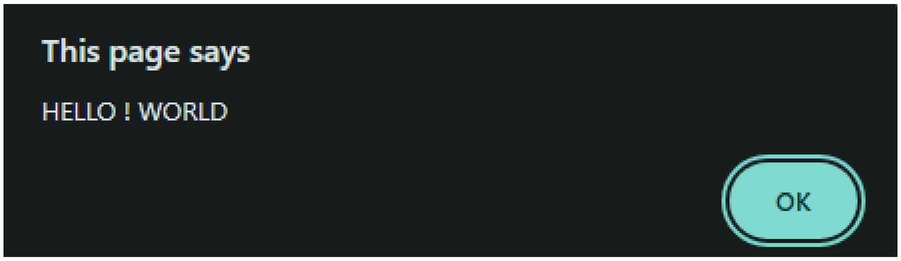
DAY 1

TASK 1

```
<head>
   <title>INTROUCTION OF JAVASCRIPT</title>
</head>
<body>
   <script>
      alert("HELLO ! WORLD");
      </script>


</body>
```

OUTPUT



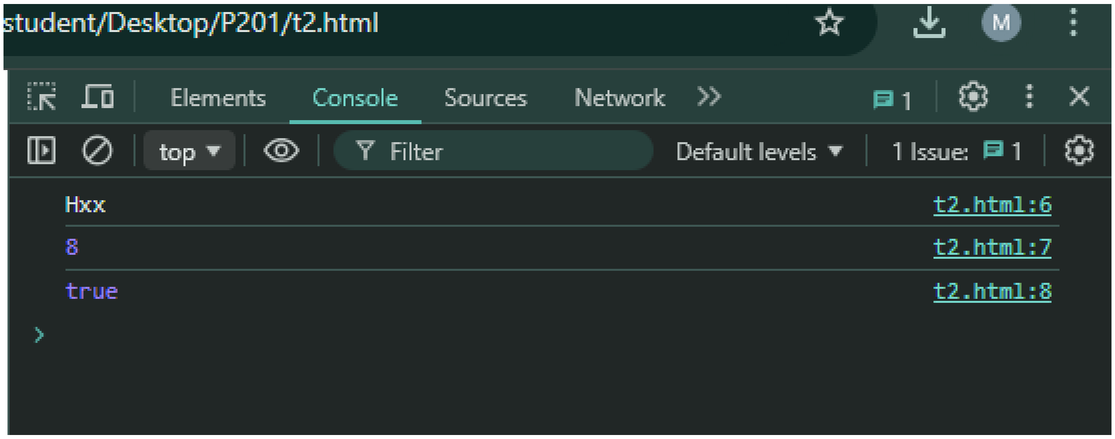
This page says

HELLO ! WORLD

TASK 2

```
<body>
   <script>
      let name="Hxx";
      let number=8;
      let bool=true;
      console.log(name);
      console.log(number);
      console.log(bool);

  </script>

</body>
```

OUTPUT

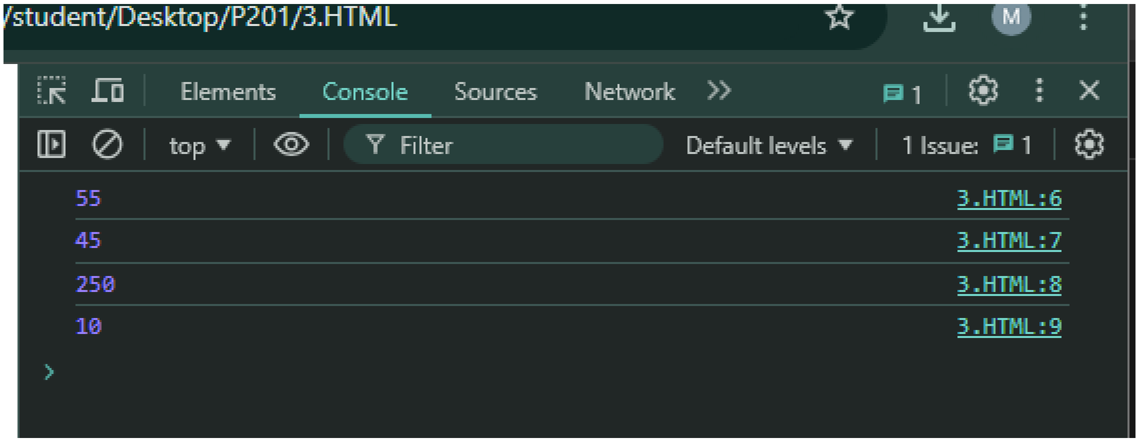


```
Hxx                                                t2.html:6
8                                                  t2.html:7
true                                               t2.html:8
>
```

TASK 3

```
<body>



   <script>

let x=50;

      let y=5;

      console.log(x+y);

      console.log(x-y);

      console.log(x*y);

console.log(x/5);

         </script>

</body>
```

OUTPUT

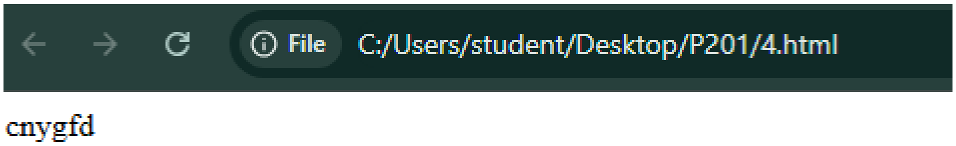


```
55                                                        3.HTML:6
45                                                        3.HTML:7
250                                                       3.HTML:8
10                                                        3.HTML:9
>
```

TASK 4

```
<body>

    <script>



        var string1="cn";

        var string2="ygfd";

        document.writeln(string1+string2);



    </script>

</body>
```

OUTPUT

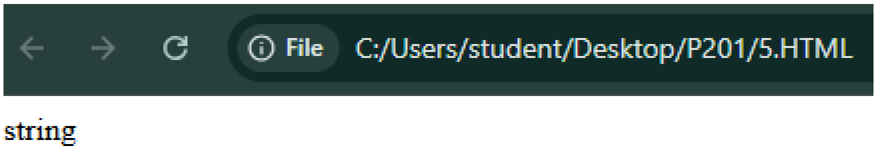


cnygfd

TASK 5

```
<body>
  <script>

     document.writeln(typeof("apple"));
  </script>
</body>
```

OUTPUT

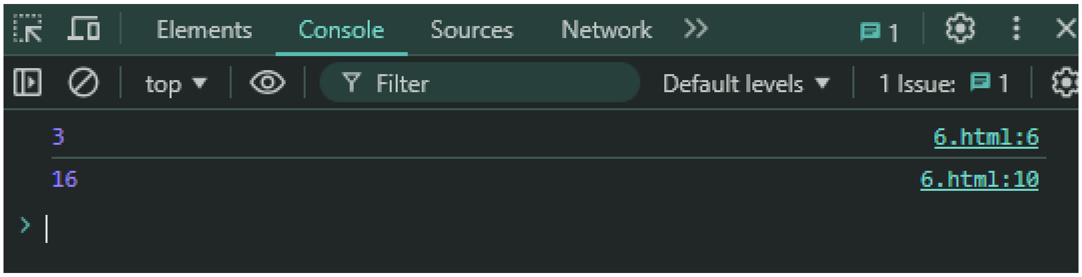


C:/Users/student/Desktop/P201/5.HTML

```
string
```

TASK 6

```
<body>
  <script>
    //single line comment
    let a=1;
    let b=2;
    console.log(a+b);
    /*this is an multi line command*/
    let c=7
    let d=9
    console.log(c+d)
    </script>

</body>
```



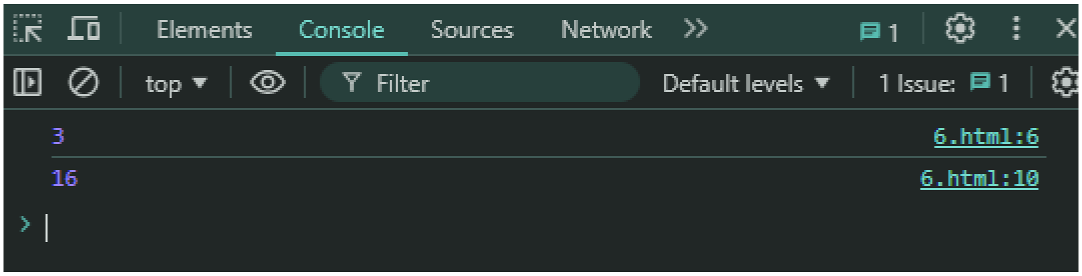
```
3                                                6.html:6
16                                               6.html:10
```

OUTPUT

TASK 7

```
<body>

    <script>

        //single line comment

        let a=1;

        let b=2;

        console.log(a+b);

        /*this is an multi line command*/

        let c=7

        let d=9

        console.log(c+d)

    </script>

</body>
```

OUTPUT

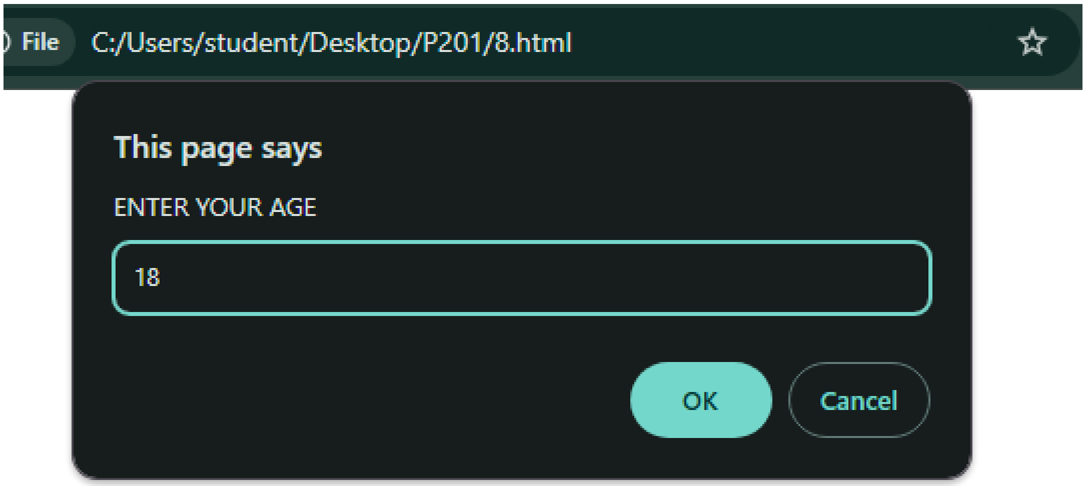


```
3                                                    6.html:6
16                                                   6.html:10
>
```

TASK 8

```
<body>
  <script>
    let age=prompt("ENTER YOUR AGE");
    if(age>=18)
    alert("ELIGIBLE TO VOTE");
    if(age<18)
    alert("NOT ELIGIBLE");
  </script>
</body>
```

OUTPUT

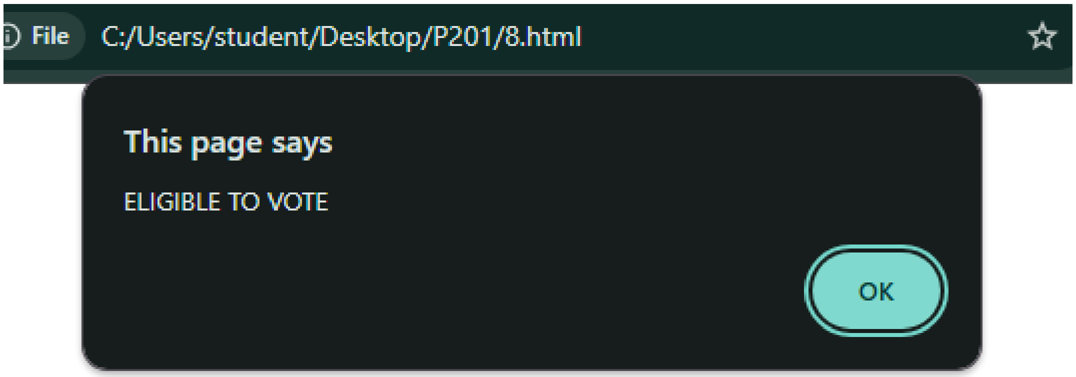


C:/Users/student/Desktop/P201/8.html

This page says

ENTER YOUR AGE

18



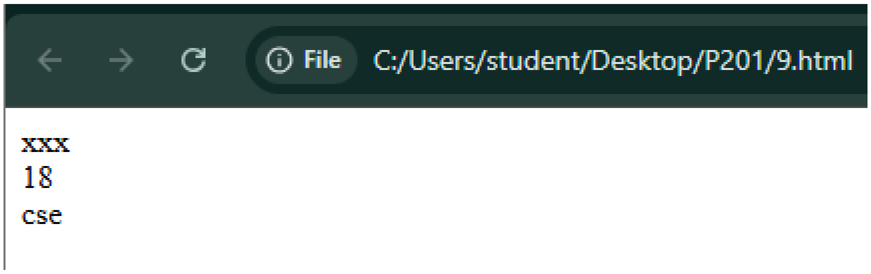
This page says

ELIGIBLE TO VOTE

TASK 9

```
<body>

  <script>

    let name="xxx",age=18,dept="cse";

    document.writeln(name+"<br>");


    document.writeln(age+"<br>");

    document.writeln(dept+"<br>");


  </script>

</body>
```

OUTPUT

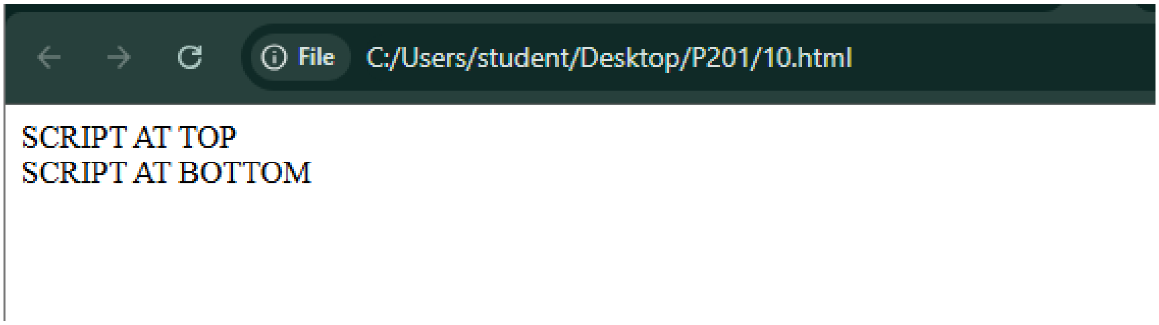


```
xxx
18
cse
```

TASK 10

```
<head>
   <title>hello</title>
   <script>
      document.writeln("SCRIPT AT TOP"+"<br>");
   </script>
</head>
<body>
   <script>
      document.writeln("SCRIPT AT BOTTOM");
   </script>
</body>
```

OUTPUT

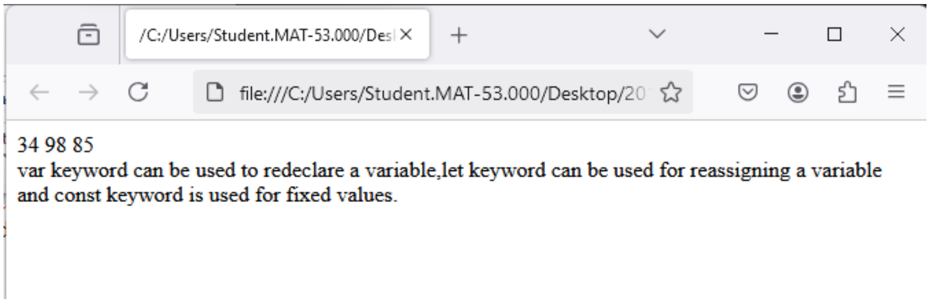


```
SCRIPT AT TOP
SCRIPT AT BOTTOM
```

Task 16:

```
<html>

  <body>

    <script>

      let x=23;

      x=34;

      var y=90;

      var y=98;

      const z=85;

      document.writeln(x);

      document.writeln(y);

      document.writeln(z+"<br>");

      document.writeln("var keyword can be used to redeclare a variable,let keyword can be used for reassigning a variable and const keyword is used for fixed values.")

    </script>

  </body>

</html>
```

Output:



/C:/Users/Student.MAT-53.000/Des
file:///C:/Users/Student.MAT-53.000/Desktop/20

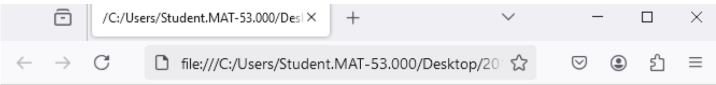
```
34 98 85
var keyword can be used to redeclare a variable,let keyword can be used for reassigning a variable
and const keyword is used for fixed values.
```

Task 17:

```
<html>

  <body>
```

```
 <script>
      const age=18;
      age=19;
      document.writeln(age);
    </script>
  </body>
</html>
```

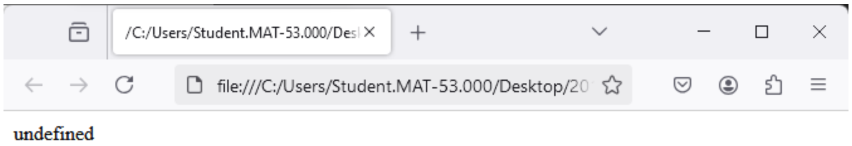
Output:


/C:/Users/Student.MAT-53.000/Des
file:///C:/Users/Student.MAT-53.000/Desktop/20

Task 18:

```
<html>
  <body>
    <script>
      let x;
      document.writeln(x);
    </script>
  </body>
</html>
```

Output:

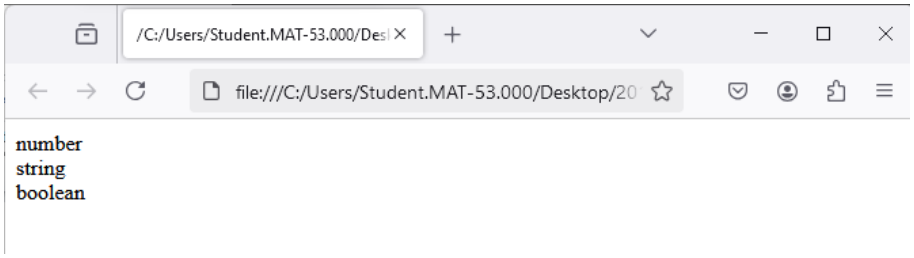

/C:/Users/Student.MAT-53.000/Des
file:///C:/Users/Student.MAT-53.000/Desktop/20

```
undefined
```

Task 19:

```
<html>
  <body>
    <script>
      let x=10;
      let str="apple";
      let bool=true;
      document.writeln(typeof x+"<br>");
      document.writeln(typeof str+"<br>");
      document.writeln(typeof bool);
    </script>
  </body>
</html>
```

Output:

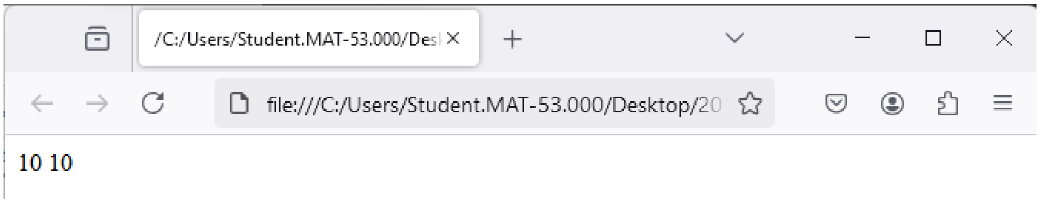

/C:/Users/Student.MAT-53.000/Des
file:///C:/Users/Student.MAT-53.000/Desktop/20

```
number
string
boolean
```

Task 20:

```
<html>
  <body>
    <script>
      let x=10;
      let y=x;
      document.writeln(x);
      document.writeln(y);
      </script>
   </body>
</html>
```

Output:

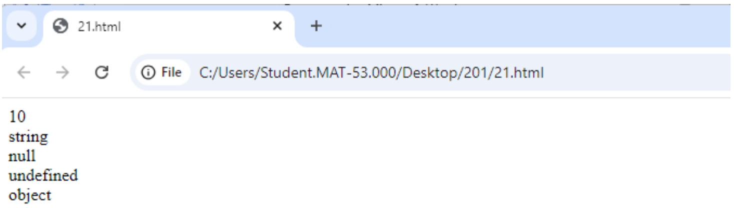

/C:/Users/Student.MAT-53.000/Des
file:///C:/Users/Student.MAT-53.000/Desktop/20

```
10 10
```

Task 21:

```
<html>
  <body>
    <script>
      let a=10;
      let b="string";
      var c=null;
      let d=false;
      let e;
      let o={
         object:"object"
      };
      document.writeln(a+"<br>");
      document.writeln(b+"<br>");
      document.writeln(c+"<br>");
      document.writeln(e+"<br>");
      document.writeln(o.object+"<br>");
    </script>
  </body>
</html>
```

Output:

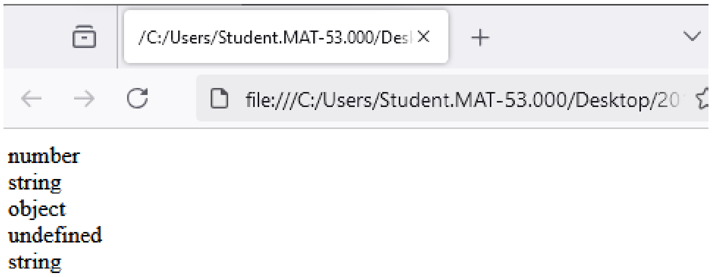


```
10
string
null
undefined
object
```

Task 22:

```
<html>
  <body>
    <script>
      let a=10;
      let b="string";
      var c=null;
      let d=false;
      let e;
      let o={
         object:"object"
      };
      document.writeln(typeof a+"<br>");
      document.writeln(typeof b+"<br>");
      document.writeln(typeof c+"<br>");
      document.writeln(typeof e+"<br>");
      document.writeln(typeof o.object+"<br>");
    </script>
  </body>

</html>
```

Output:

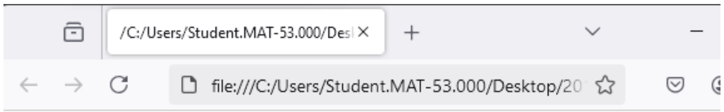

/C:/Users/Student.MAT-53.000/Des
file:///C:/Users/Student.MAT-53.000/Desktop/20

```
number
string
object
undefined
string
```

Task 23:

```
<html>

   <body>

      <script>

         let a=&;

         document.writeln(typeof a);

      </script>

   </body>

</html>
```

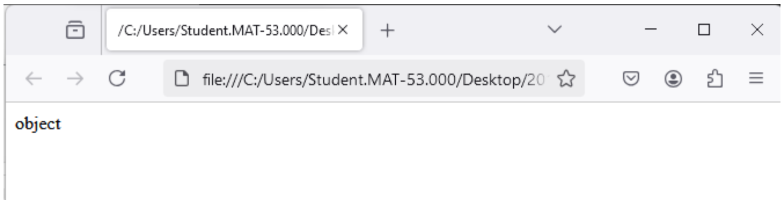
Output:


/C:/Users/Student.MAT-53.000/Des
file:///C:/Users/Student.MAT-53.000/Desktop/20

Task 24:

```
<html>

   <body>

      <script>
      let x=null;

      document.writeln(typeof x);

    </script>

  </body>

</html>
```

Output:

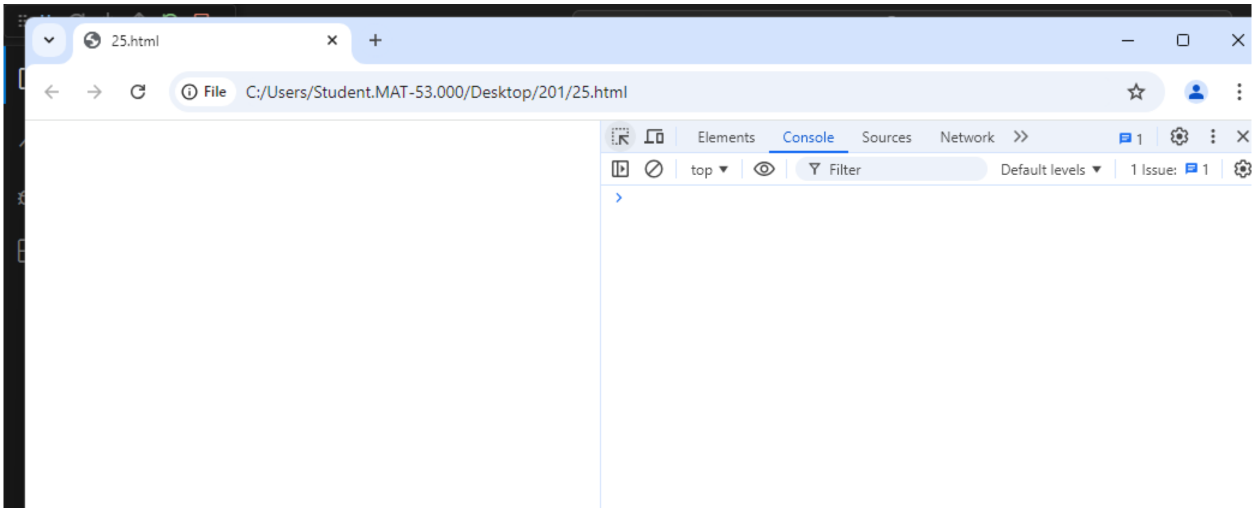

/C:/Users/Student.MAT-53.000/Des
file:///C:/Users/Student.MAT-53.000/Desktop/20

```
object
```

Task25:

```
<html>

  <body>

    <script>

      if (true) {

 let y = 20;

}

console.log(y);

if (true) {

 var x = 10;

}

console.log(x);

    </script>

  </body>

</html>
```

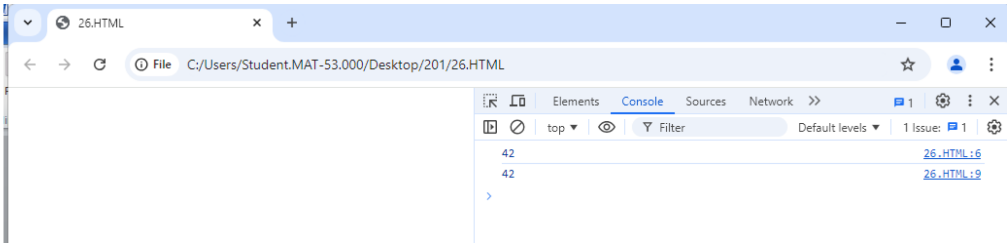
OUTPUT:



Task 26:

```
<html>
  <body>
    <script>
      let str = "42";
      let num = str * 1
      console.log(num);
      let str1 = "42";
      let num1= parseInt(str1);
      console.log(num1);
    </script>
  </body>
</html>
```

Output:

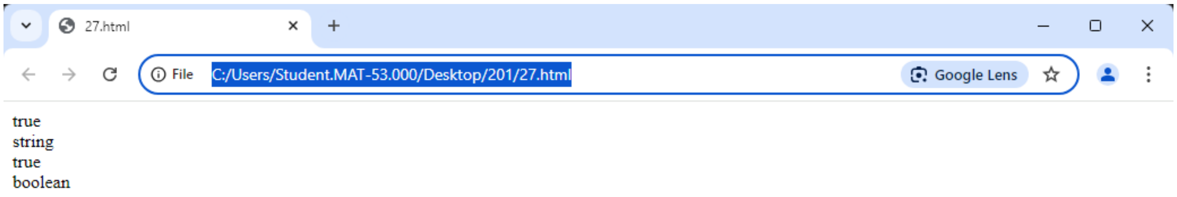


```
42                                                    26.HTML:6
42                                                    26.HTML:9
```

Task 27:

```
<html>
  <body>
    <script>
      let boolean = true;
      let str = String(boolean);
      document.writeln(str + "<br>");
      document.writeln(typeof str + "<br>");
       let name = "gayathiri";
      let bool = Boolean(name);
      document.writeln(bool + "<br>");
      document.writeln( typeof bool+ "<br>");
    </script>
  </body>
</html>
```

Output:

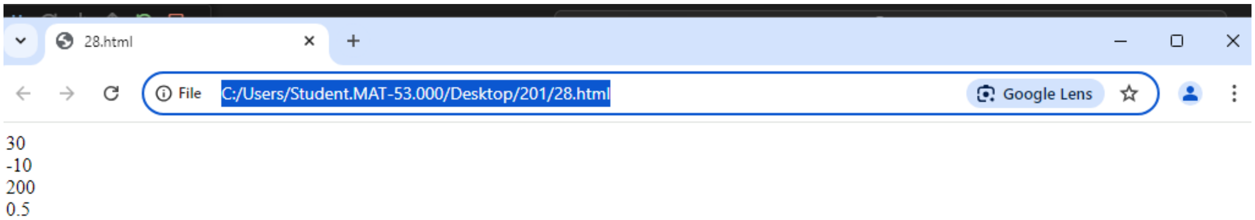


```
true
string
true
boolean
```

TASK28:

```
<html>
  <body>
    <script>
      let a=10;
      let b=20;
      document.write(a+b+"<br>");
      document.write(a-b+"<br>");
      document.write(a*b+"<br>");
      document.write(a/b+"<br>");
    </script>
  </body>
</html>
```

OUTPUT:

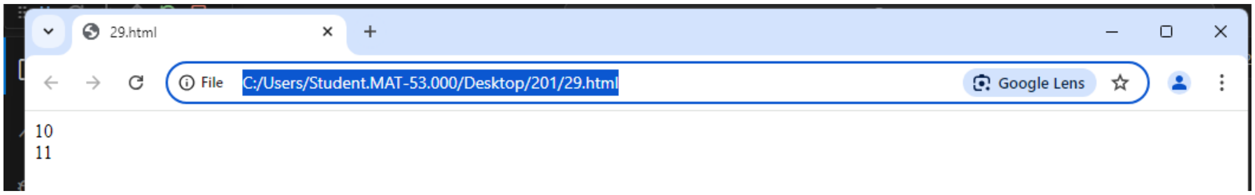


```
30
-10
200
0.5
```

Task 29:

```
<html>
  <body>
    <script>
      let a=10;
      document.write(a+++"<br>");
      document.write(a--);
    </script>
  </body>
</html>
```

OUTPUT:

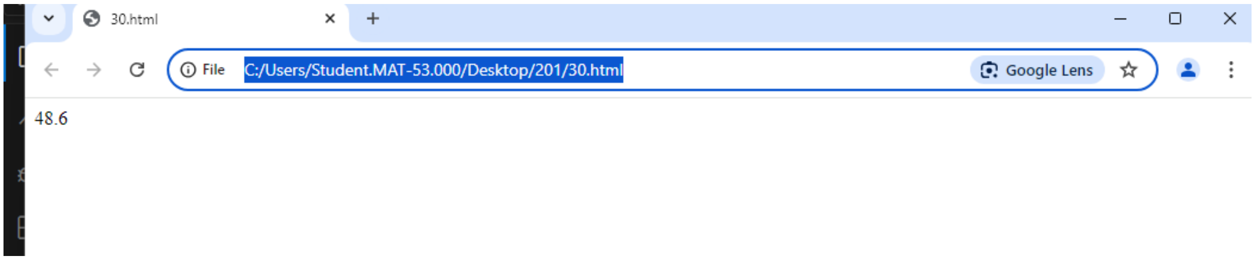


```
10
11
```

TASK30:

```
<html>
  <body>
    <script>
      let a=20;
      let b=19;
      let c=28;
      document.write(a+b*c/a+2);
    </script>
  </body>
</html>
```

OUTPUT:

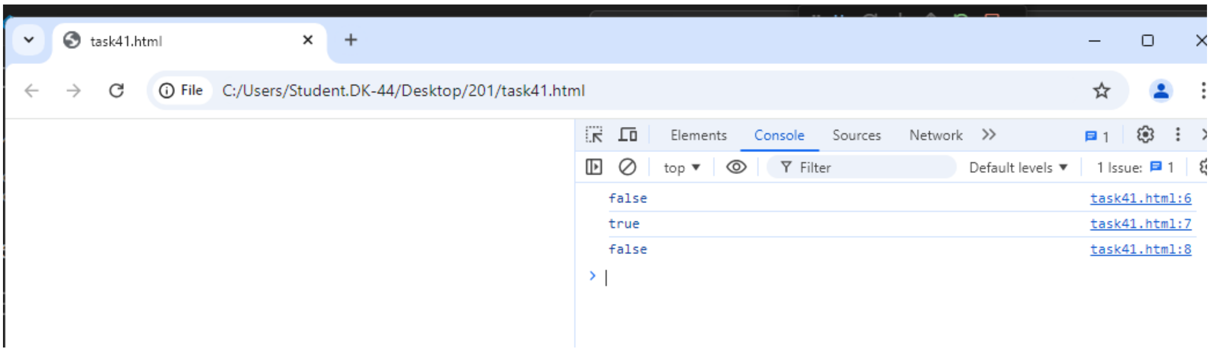


```
48.6
```

Task 41:

```
<html>

<body>

<script>

let a=20;

let b=40;

console.log((a>b)&&(a<b));

console.log((a>b)||(a<b));

console.log(!a);

</script>

</body>

</html>
```

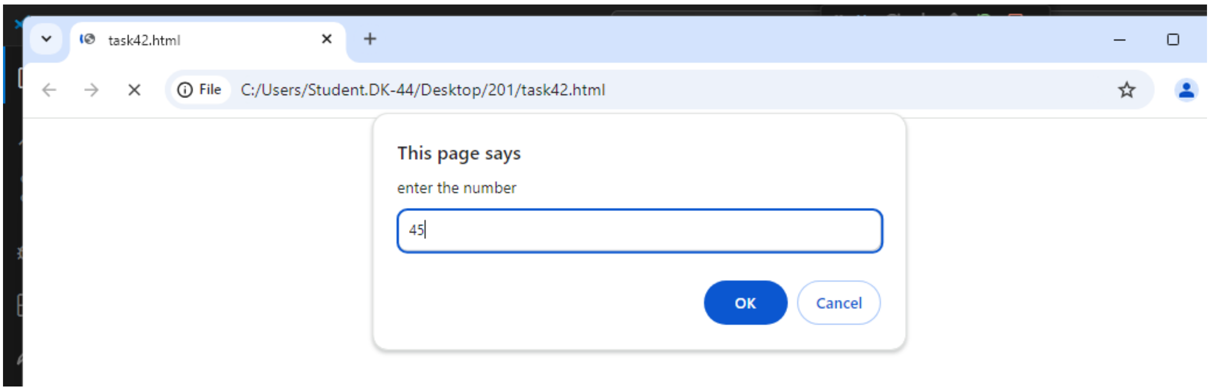
Output:



```
false                                              task41.html:6
true                                               task41.html:7
false                                              task41.html:8
>
```

Task 42:

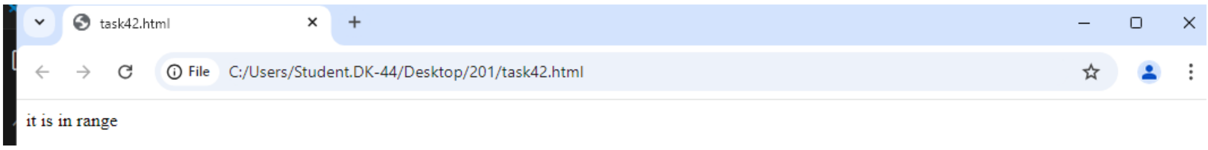
```
<html>

<body>

<script>

let a=prompt("enter the number");

let b=(a>40 && a<60)?document.write("it is in range"):document.write("it is not in range");

</script>

</body>

</html>
```



This page says

enter the number

45

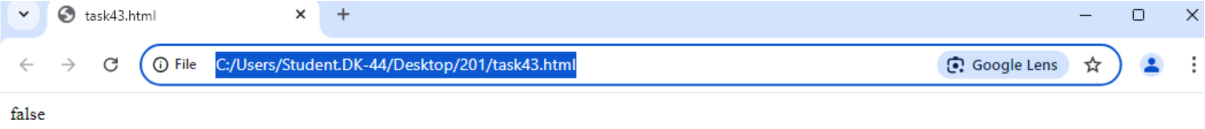


```
it is in range
```

Task 43:

```
<html>

<body>

<script>

let boolean=true;

document.write(!boolean);

</script>

</body>

</html>
```

Output:

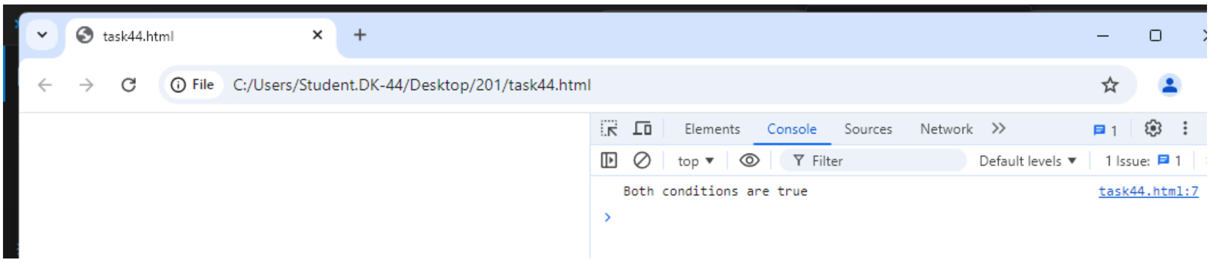


```
false
```

Task 44:

```
<html>

<body>

<script>

const a = 5;

const b = 10;
const result = (a > 0 && b < 20) && "Both conditions are true";

console.log(result);

</script>

</body>

</html>
```

Output:

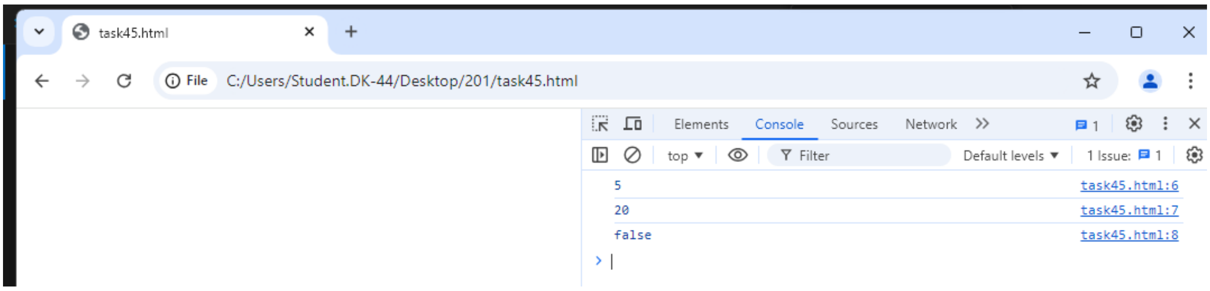


```
Both conditions are true                                task44.html:7
```

Task 45:

```
<html>

<body>

<script>

let a=5;

let b=20;

console.log(a||b);

console.log(a&&b);

console.log(!b);

</script>

</body>

</html>
```

Output:

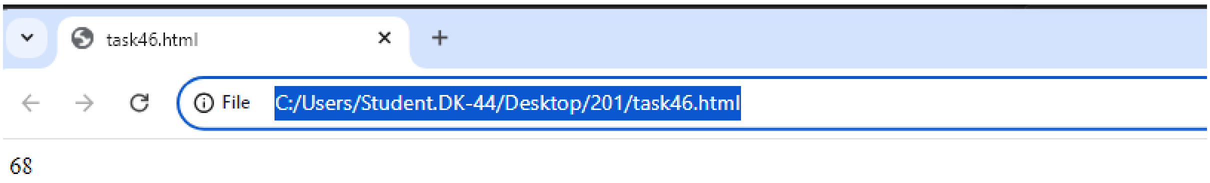


```
5                                                       task45.html:6
20                                                      task45.html:7
false                                                   task45.html:8
```

Task 46:

```
<html>


<body>

<script>

function sum(a,b)

{

document.write(a+b);

}

sum(60,8);

</script>

</body>

</html>
```

Output:



C:/Users/Student.DK-44/Desktop/201/task46.html

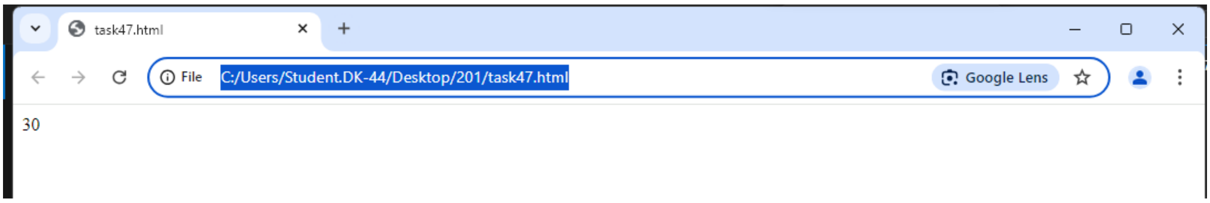
```
68
```

Task 47:

```
<html>

<body>

<script>

function area(l,b)

{

document.write(l*b);

}

area(5,6);
```

```
</script>


</body>

</html>
```

Output:

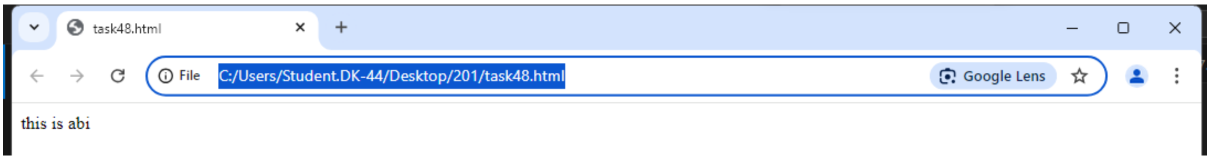


```
30
```

Task 48:

```
<html>

<body>

<script>

function call()

{

document.write("this is abi");

}

call();

</script>

</body>

</html>
```

Output:



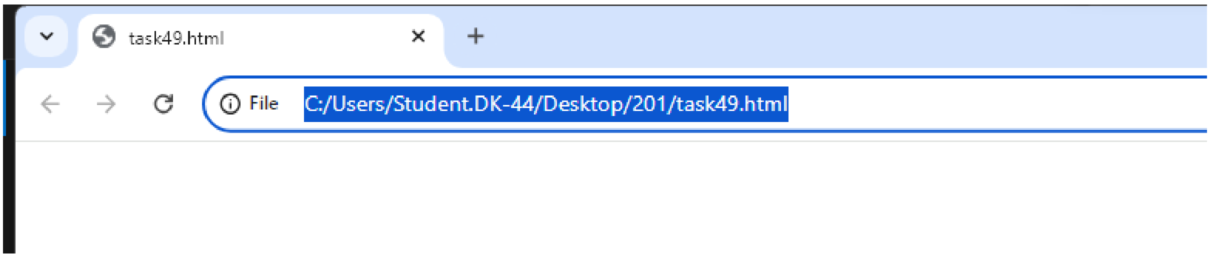
```
this is abi
```

Task 49:

```
<html>

<body>
```

```
<script>


function call()

{


}

call();


</script>

</body>

</html>
```

Output:



Task 50:

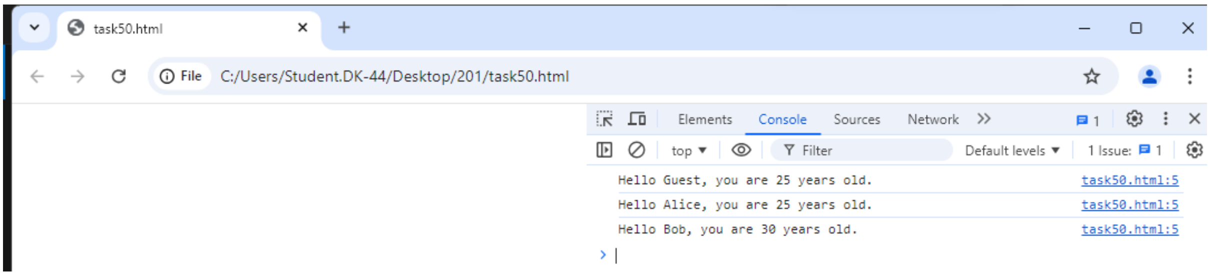
```
<html>

<body>

<script>

function greet(name = "Guest", age = 25) {

console.log(`Hello ${name}, you are ${age} years old.`);

}

greet();

greet("Alice");

greet("Bob", 30);
```

</script>

</body>

</html>

Output:

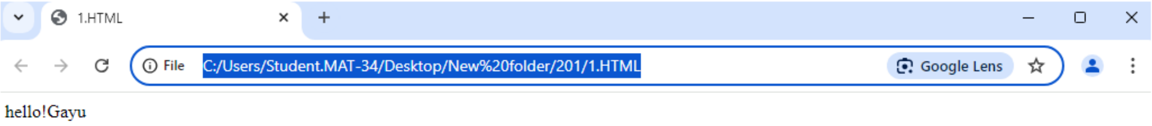


```
Hello Guest, you are 25 years old.     task50.html:5
Hello Alice, you are 25 years old.     task50.html:5
Hello Bob, you are 30 years old.       task50.html:5
```

TASK 51:

```
<html>
  <body>
    <script>
      let greet=(name)=>{
        document.write("hello!"+name);
      }
      greet("Gayu");
    </script>
  </body>
</html>
```

OUTPUT:

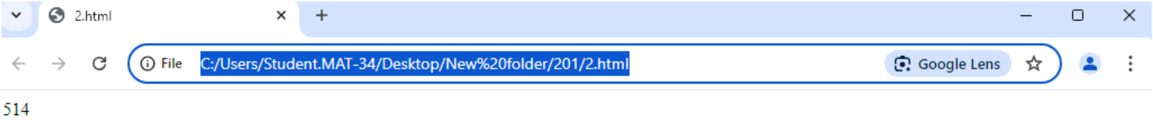


```
hello!Gayu
```

TASK 52:

```
<html>
  <body>
    <script>
      let add=(a,b)=>{
        document.write(a+b);
      }
      add(2,3);
      add(7,7);
    </script>
  </body>
</html>
```

OUTPUT:

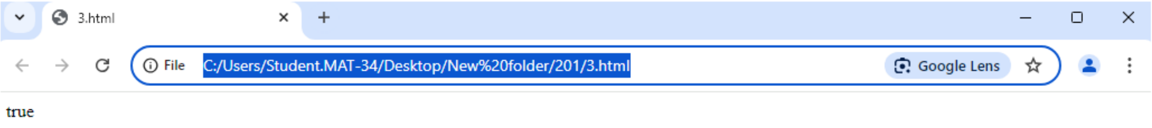


```
514
```

TASK 53:

```
<html>
  <body>
    <script>
      let isEven=(a)=>{
       if(a%2==0)
       document.write("true");
    else
    document.write("false");
      }
      isEven(8);
    </script>
  </body>
</html>
```

OUTPUT:

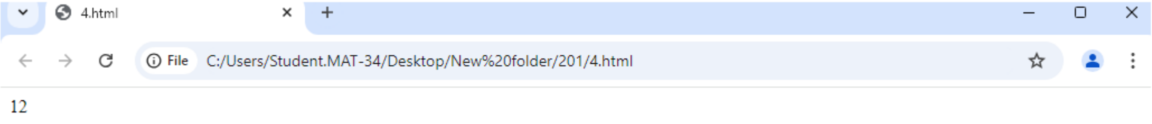


```
true
```

TASK 54:

```
<html>
  <body>
    <script>
      let max=(a,b)=>{
        if(a>b){
          document.write(a);
        }
        else{
          document.write(b);
        }
      }
      let a=parseInt(prompt("enter a number: "));
      let b=parseInt(prompt("enter a number2: "));
      max(a,b);
    </script>
  </body>
</html>
```

OUTPUT:

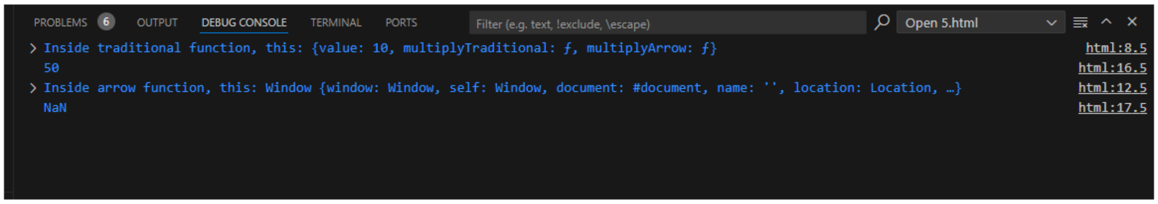


```
12
```

TASK55:

```
<html>

<body>

<script>

const myObject = {

value: 10,

multiplyTraditional: function(factor) {

console.log('Inside traditional function, this:', this);

return this.value * factor;

},

multiplyArrow: (factor) => {

console.log('Inside arrow function, this:', this);

return this.value * factor;

}

};

console.log(myObject.multiplyTraditional(5));

console.log(myObject.multiplyArrow(5));

</script>

</body>

</html>
```

OUTPUT:

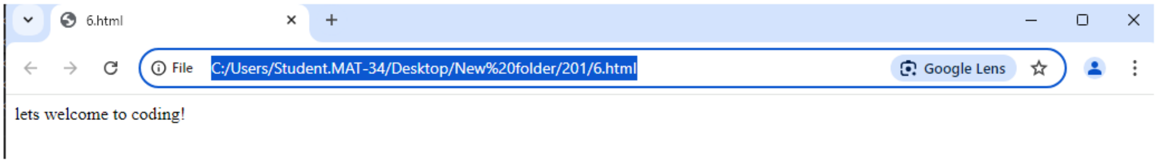


```
> Inside traditional function, this: {value: 10, multiplyTraditional: ƒ, multiplyArrow: ƒ}      html:8.5
  50                                                                                             html:16.5
> Inside arrow function, this: Window {window: Window, self: Window, document: #document, name: '', location: Location, …}      html:12.5
  NaN                                                                                            html:17.5
```

TASK11:

```
<html>

<head>

<meta charset ="UTF-8">

<meta name:"viewport" content="width+device_width,initial-scale=1.0">

</head>

<body>

<script>

name="lets welcome to coding!"

document.writeln(name);

</script>

</body>

</html>
```

OUTPUT:



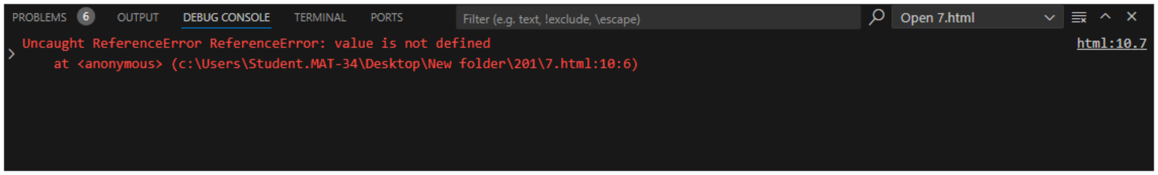
```
lets welcome to coding!
```

TASK 12:

```
<html>

<head>

<meta charset ="UTF-8">

<meta name:"viewport" content="width+device_width,initial-scale=1.0">

</head>

<body>

<script>

"use strict";

value="lets welcome to coding!";

console.log(value);
```

```
</script>

</body>

</html>
```

Output:



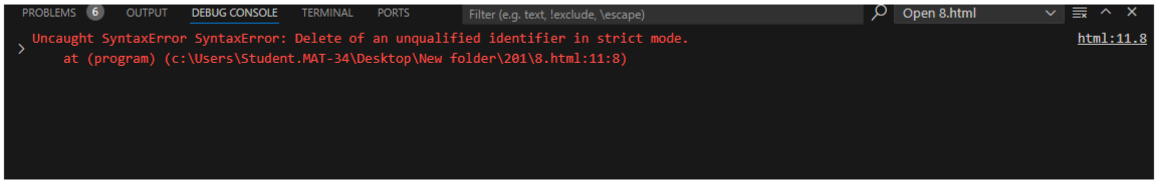
```
Uncaught ReferenceError ReferenceError: value is not defined          html:10.7
    at <anonymous> (c:\Users\Student.MAT-34\Desktop\New folder\201\7.html:10:6)
```

TASK13:

```
<html>

<head>

<meta charset ="UTF-8">

<meta name:"viewport" content="width+device_width,initial-scale=1.0">

</head>

<body>

<script>

"use strict";

var name="john";

delete name;

"use strict";

function myfunction(){

return welcome guys!;

}

delete myfunction;

"use strict";

function myfunction(goodmorning)

delete myfunction;
```

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

OUTPUT:

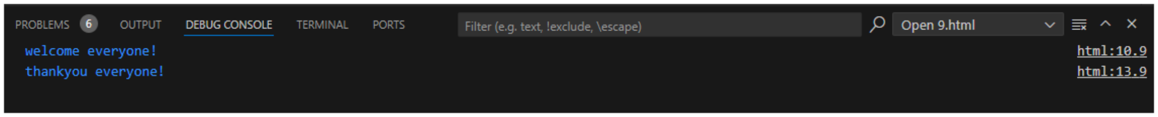


```
Uncaught SyntaxError SyntaxError: Delete of an unqualified identifier in strict mode.      html:11.8
    at (program) (c:\Users\Student.MAT-34\Desktop\New folder\201\8.html:11:8)
```

TASK14:

```
<html>
<head>
<meta charset ="UTF-8">
<meta name:"viewport" content="width+device_width,initial-scale=1.0">
</head>
<body>
<script>
name="welcome everyone!";
console.log(name);
"use strict";
name="thankyou everyone!";
console.log(name);
</script>
</body>
</html>
```

Output:

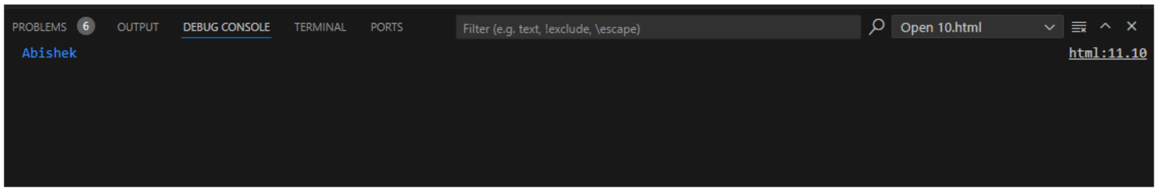


```
welcome everyone!        html:10.9
thankyou everyone!       html:13.9
```

TASK15:

```
<html>
<head>
<meta charset ="UTF-8">
<meta name:"viewport" content="width+device_width,initial-scale=1.0">
</head>
<body>
<script>
"use strict";
const name ="Abishek"
console.log(name);
</script>
</body>
</html>
```

Output:

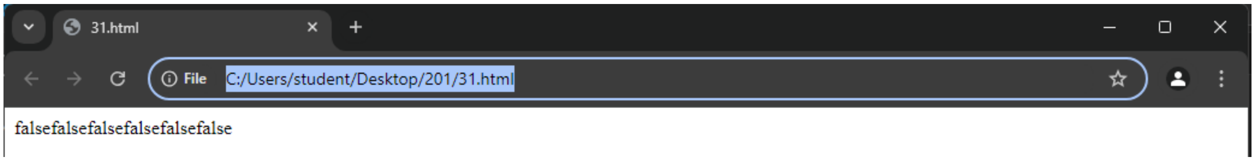


```
Abishek                                                                  html:11.10
```

TASK 31:

```
<html>
 <body>
 <script>
 let a=10;
 let b=20;
 document.write(a>b+"<br>");
 document.write(a<b+"<br>");
 document.write(a<=b+"<br>");
 document.write(a>=b+"<br>");
 document.write(a==b+"<br>");
 document.write(a==b+"<br>");
 </script>
 </body>
</html>
```

OUTPUT:

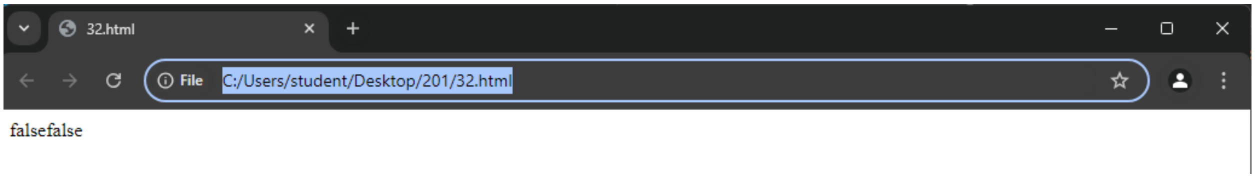


```
falsefalsefalsefalsefalsefalse
```

TASK 32:

```
<html>
 <body>
 <script>
 let a=10;
 let b=20;
 document.write(a===b);
 document.write(a==b); </script>

 </body>

</html>
```

OUTPUT:



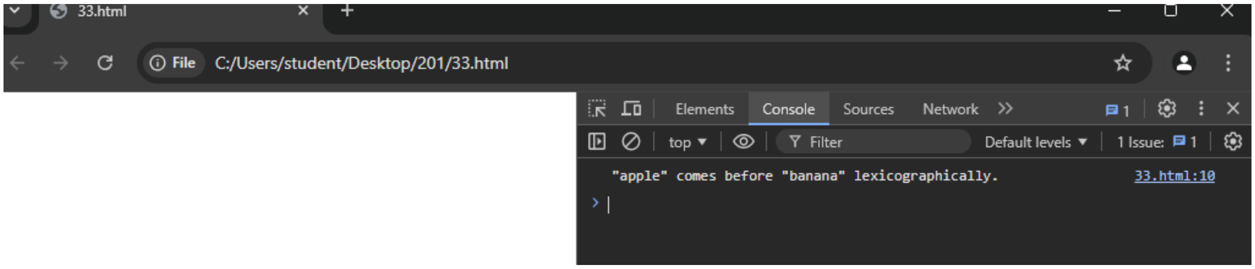
```
falsefalse
```

TASK 33:

```
<html>

    <body>

        <script>

            // Define two strings

let string1 = "apple";

let string2 = "banana";



// Compare using the <, >, and === operators

if (string1 < string2) {

    console.log(`"${string1}" comes before "${string2}" lexicographically.`);

} else if (string1 > string2) {

    console.log(`"${string1}" comes after "${string2}" lexicographically.`);

} else {

    console.log(`"${string1}" is equal to "${string2}" lexicographically.`);

}



        </script>
```

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

Output:

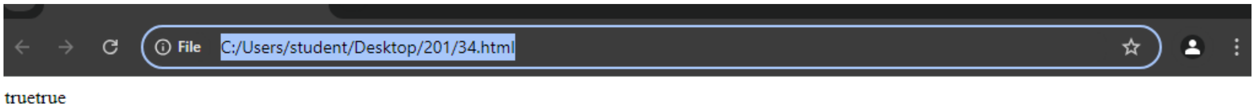


```
"apple" comes before "banana" lexicographically.    33.html:10
```

TASK 34:

```
<html>
 <body>
 <script>
 let a=10;
 let b=20;
 document.write(a!=b+"<br>");
 document.write(a!==b);
 </script>
 </body>
</html>
```

OUTPUT:

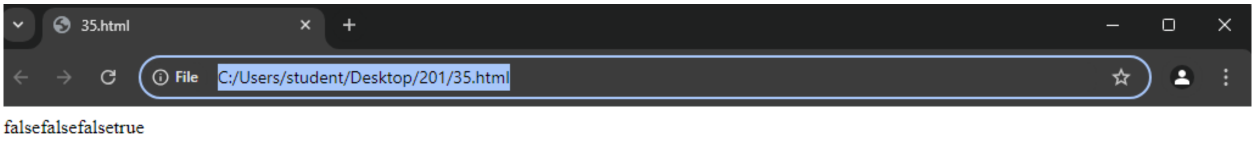


```
truetrue
```

TASK 35:

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

 let a;

 let b;

 let c=null;

 let d=null;

 document.write(a==b+"<br>");

 document.write(c==d+"<br>");

 document.write(a===b+"<br>");

 document.write(c===d);

 </script>

 </body>

</html>
```

OUTPUT:



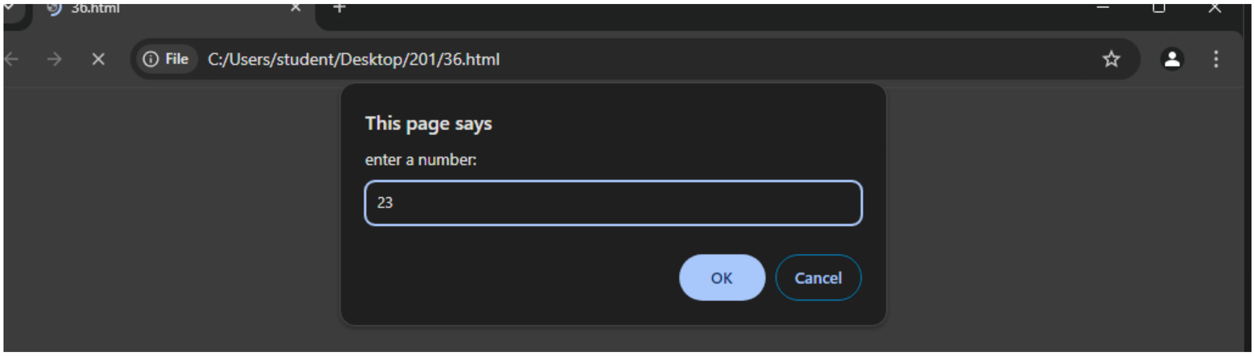
```
falsefalsefalsetrue
```

TASK 36:

```
<html>

 <body>

 <script>

 let a=prompt("enter a number:");

 if(a%2==0)

document.write(“even”);

else
```

```
document.write(“odd”);
 </script>
 </body>
</html>
```

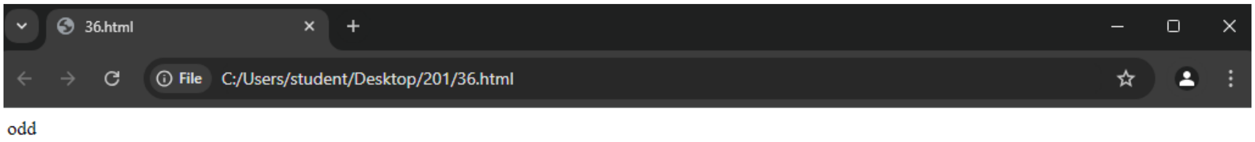
OUTPUT:



This page says

enter a number:

23

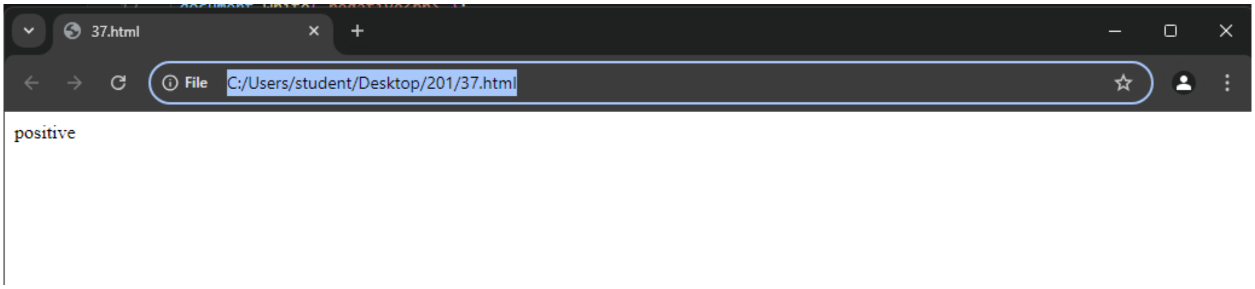


odd

TASK 37:

```
<html>
 <body>
 <script>
 let a=10;
 if(a>0){
 document.write("positive <br>");
 }
 if(a==0){
 document.write("zero<br>");
 }
 if(a<0){
 document.write("negative<br>");
 }


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

OUTPUT:

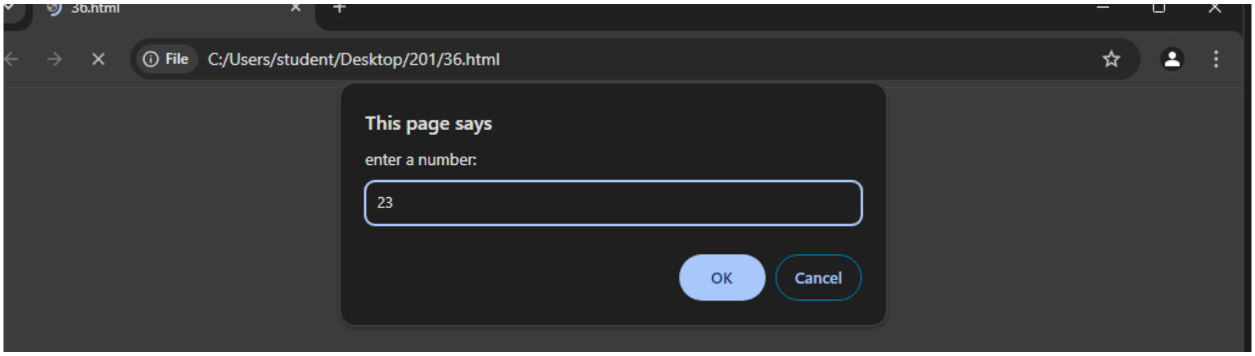


```
positive
```

TASK 38:

```
<html>
 <body>
 <script>
 let a=prompt("enter a number:");
 let result=(a%2==0)?document.write("even"):document.write("odd");
 </script>
 </body>
</html>
```

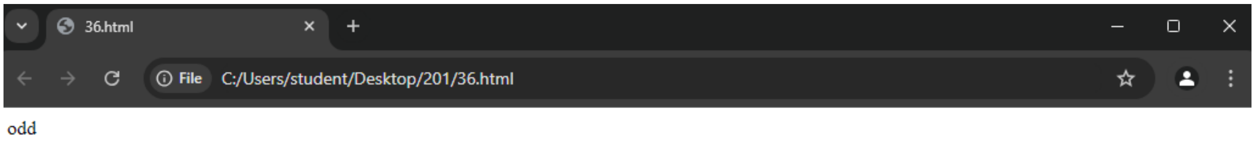
OUTPUT:



This page says

enter a number:

23

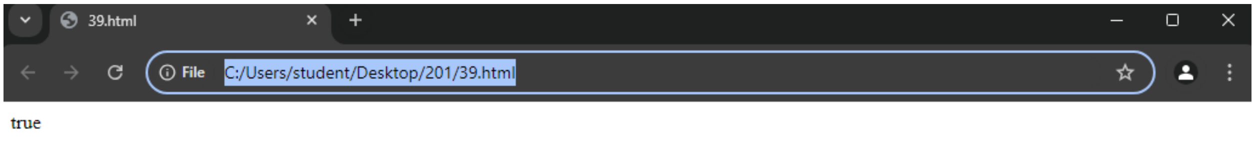


```
odd
```

TASK 39:

```
<html>
 <body>
 <script>
 let variable = 4;
let isValid = (variable !== undefined && variable !== null) ? true : false;
document.write(isValid);
 </script>
 </body>
</html>
```

OUTPUT:

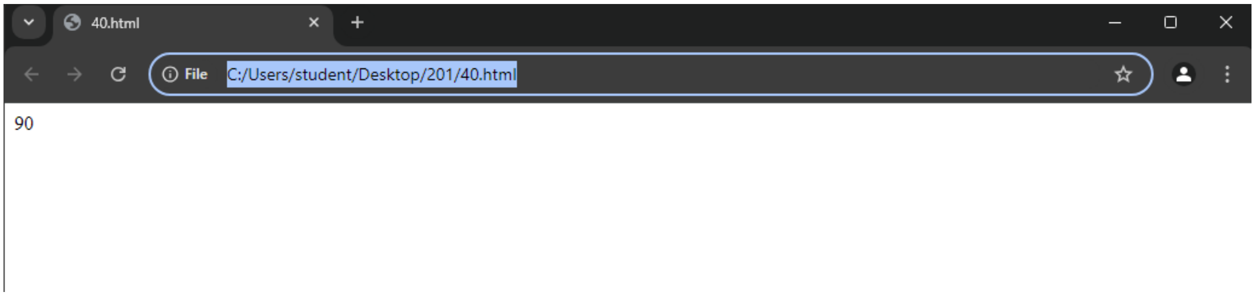


```
true
```

TASK40:

```
<html>
 <body>
 <script>
 let a=34;
 let b=90;
 let c=(a>b)?a:b;
 document.write(c);
 </script>
 </body>
</html>
```

OUTPUT:



```
90
```