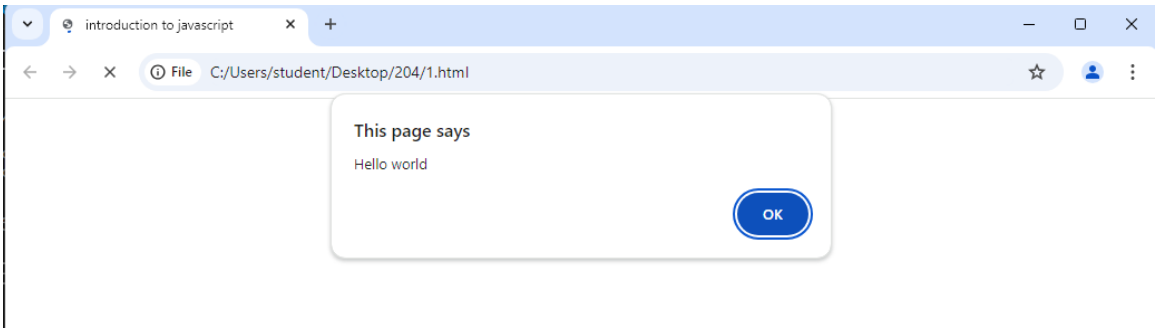
TASK 1:

```
<!DOCTYPE html>
<head>
   <title>introduction to javascript</title>
</head>
<body>
   <script>
      alert("Hello world");
   </script>
   </body>
   </html>
```

OUTPUT:

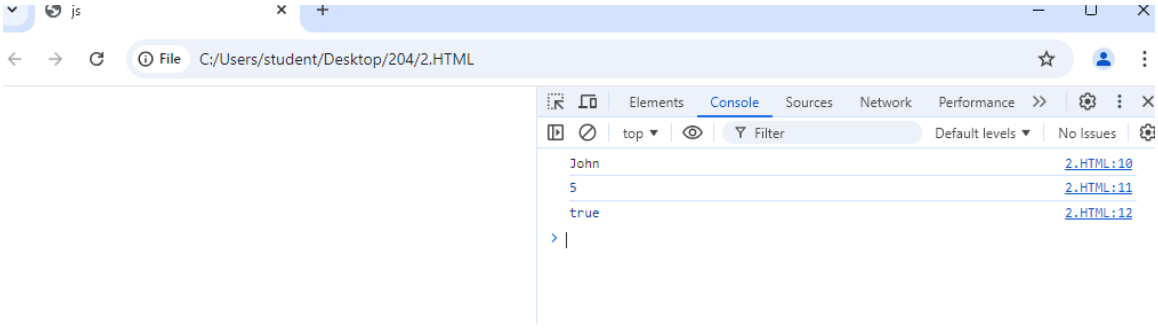


TASK 2:

```
<!DOCTYPE html>
<head>
   <title> js</title>
</head>
<body></body>
<script>
   var name="John";
```

```
    let num=5;
    let bool=true;
    console.log(name);
    console.log(num);
    console.log(bool);
</script>
</html>
```

OUTPUT:

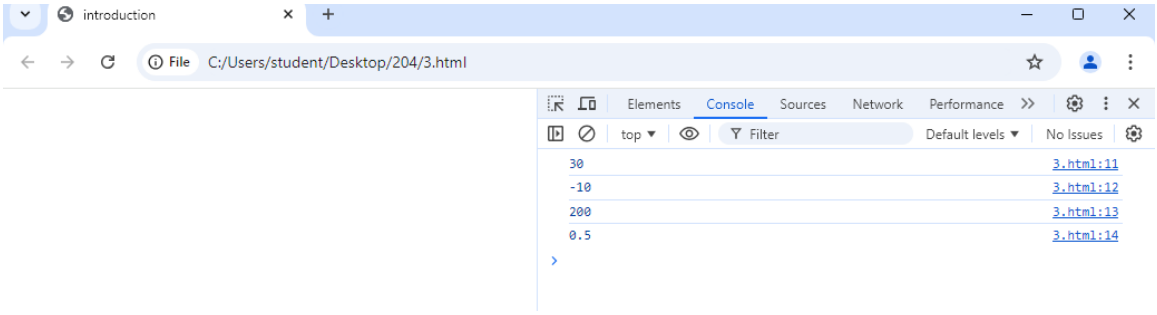


TASK 3:

```
<!DOCTYPE html>
<head>
    <title>
        introduction
    </title>
</head>
<body>
    <script>
        const s=10;
        const w=20;
        console.log(s+w);
        console.log(s-w);
        console.log(s*w);
```

```
    console.log(s/w);
  </script>
</body>
```

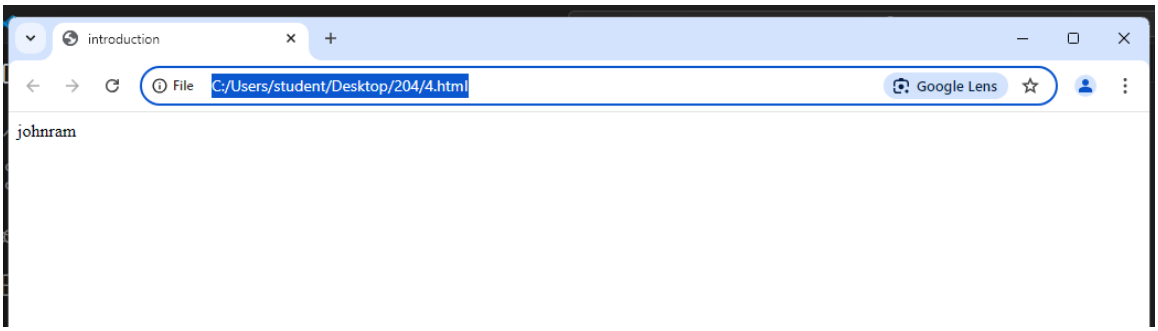
OUTPUT:



TASK 4:

```
<!DOCTYPE html>
<head>
  <title>introduction</title>
</head>
<body>
  <script>
    var name1="john";
    var name2="ram";
    document.write(name1+name2);
  </script>
</body>
</html>
```

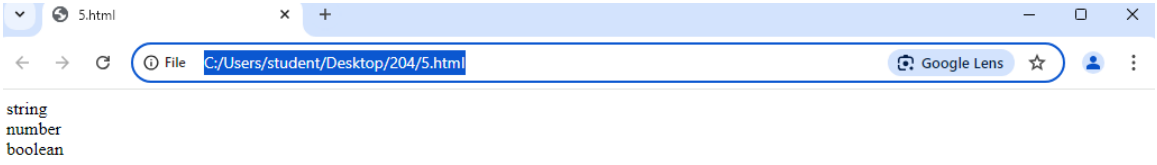
OUTPUT:



TASK 5:

```
<html>
  <body>
<script>
  var name="john";
  let n=3;
  let bool=false;
  document.write(typeof name+"<br>");
  document.write(typeof n+"<br>");
  document.write(typeof bool);
</script>
</body>
</html>
```

OUTPUT:

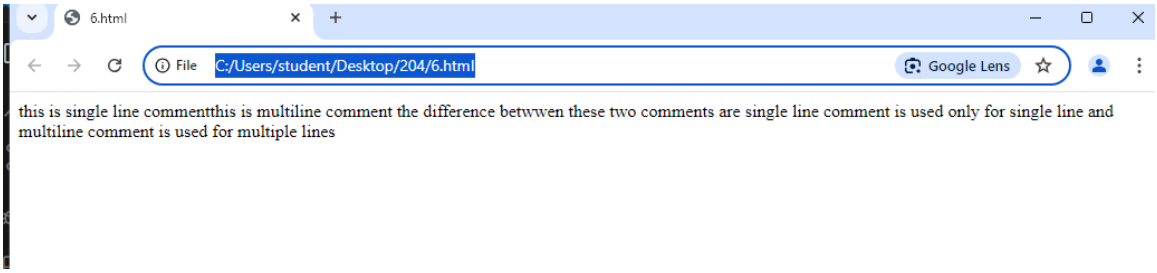


TASK 6:

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

```
        //single line comment
        document.write("this is single line comment");
        /*multi
        line
        comment*/
        document.write("this is multiline comment");
        document.write(" the difference betwwen these two comments are single line comment is used only for single line and multiline comment is used for multiple lines");
    </script>
  </body>
</html>
```

OUTPUT:

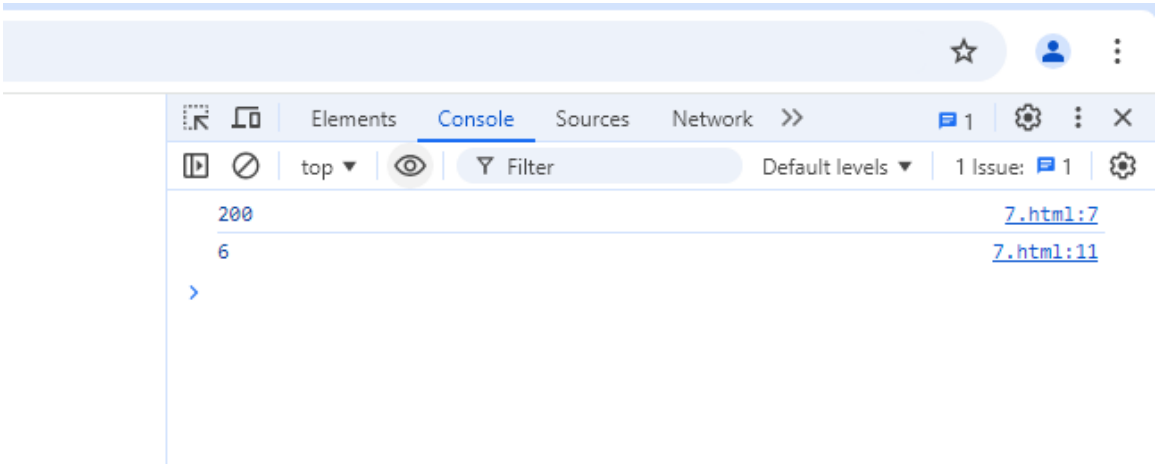


TASK 7:

```
<html>
  <body>
    <script>
        //semicolon separated
        let a=10;
        let b=20;
        console.log(a*b);
        //semicolon not separated
        let c =2
        let d=3
```

```
        console.log(c*d)


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

OUTPUT:

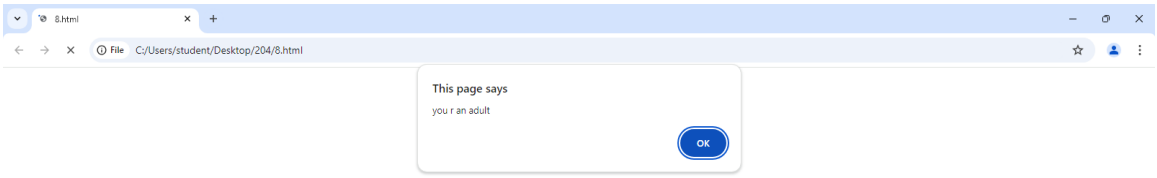


TASK 8:

```
<html>
  <body>
    <script>
      let age=prompt("enter your age:");
      if(age>10 && age<18)
        alert("you r child");
        if(age>18 &&age<25)
        alert("you r teenager");
          if(age>25)
          alert("you r an adult");


    </script>
  </body>
```

</html>

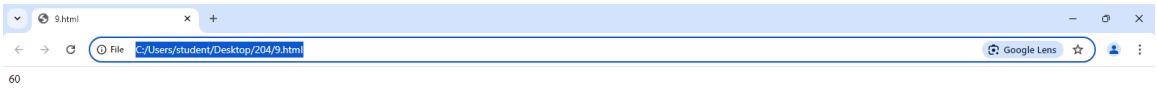
OUTPUT:



TASK 9:

```
<html>
  <body>
    <script>
      //multiple variables in single line
      let a,b,c;
      a=10;
      b=20;
      c=30;
      document.write(a+b+c);
    </script>
  </body>
</html>
```

OUTPUT:

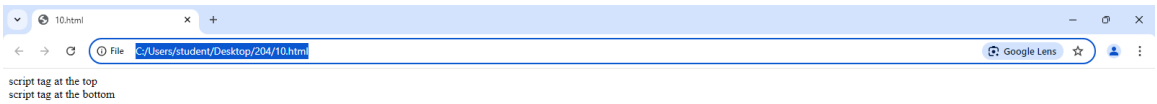


TASK 10:

```
<html>
  <head>
    <script>
      document.write("script tag at the top"+"<br>");
    </script>
  </head>
```

```
    <body>


    </body>
</html>
<html>
    <head>


    </head>
    <body>
        <script>
            document.write("script tag at the bottom");
        </script>
    </body>
</html>
```

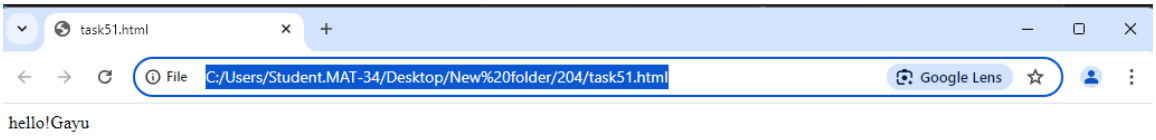
OUTPUT:



TASK 51:

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

OUTPUT:

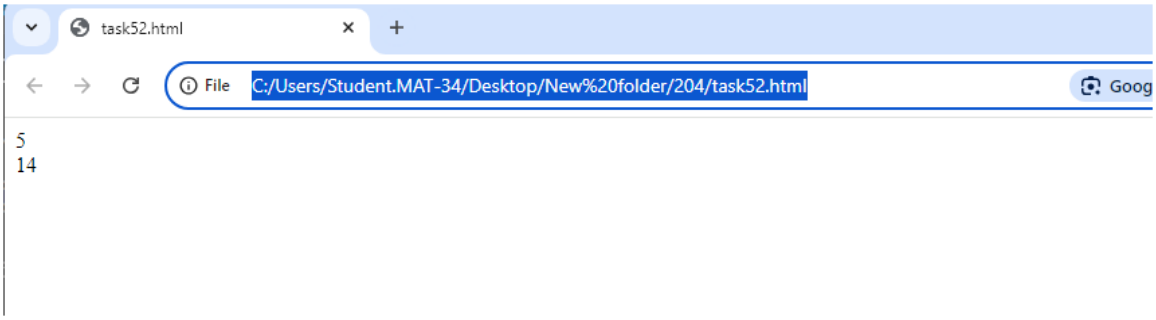


TASK 52:

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

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

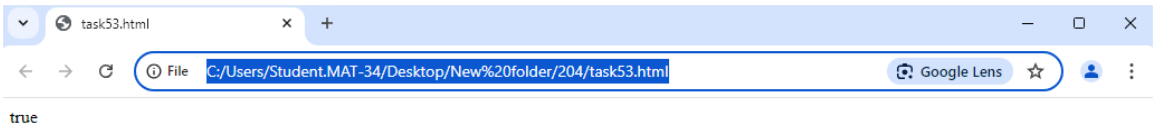
OUTPUT:



TASK 53:

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

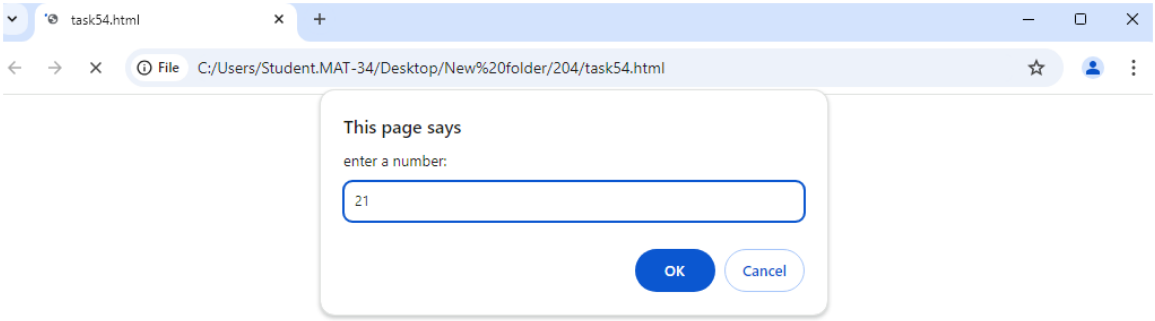
OUTPUT:

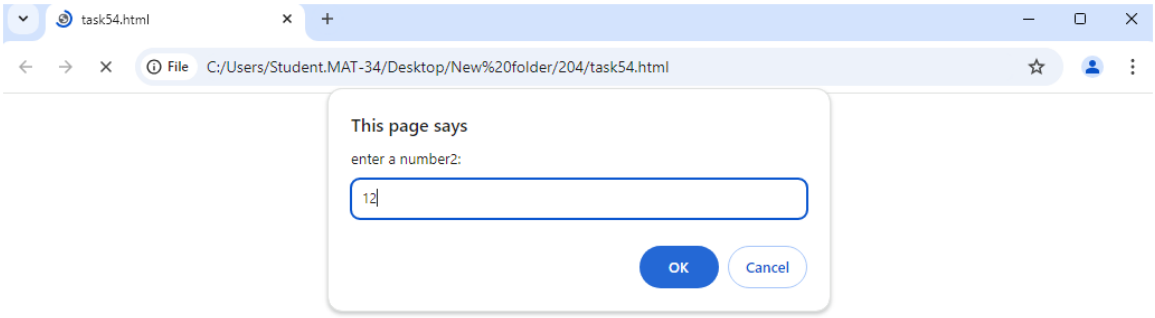


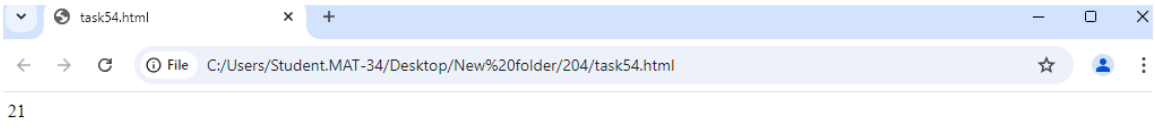
TASK 54:

```
<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:





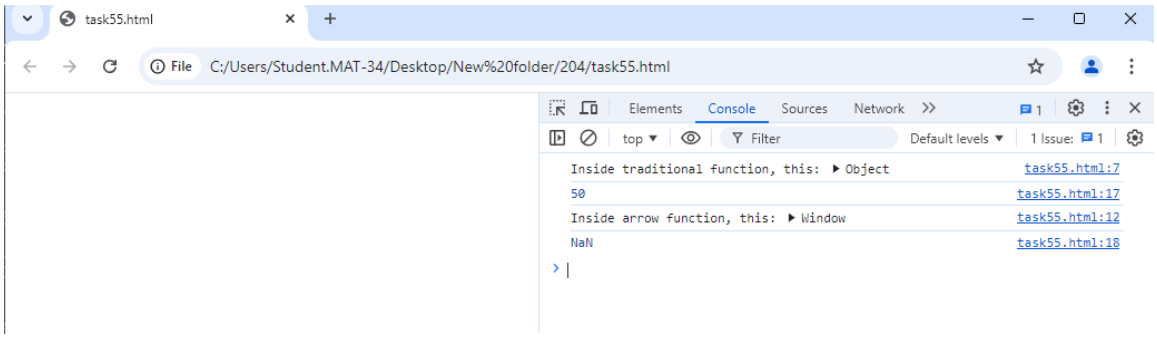


TASK55:

```
<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:



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!"

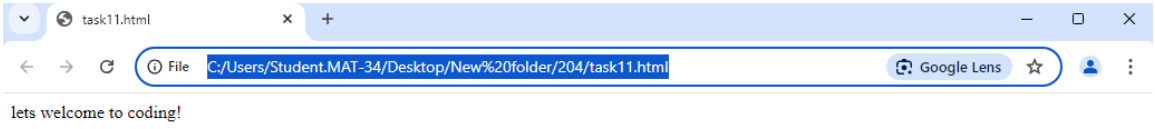
document.writeln(name);

</script>

</body>

</html>

OUTPUT:



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!";

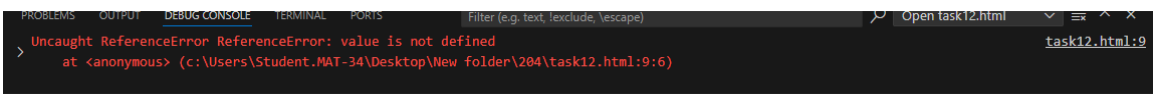
console.log(value);

</script>

</body>

</html>

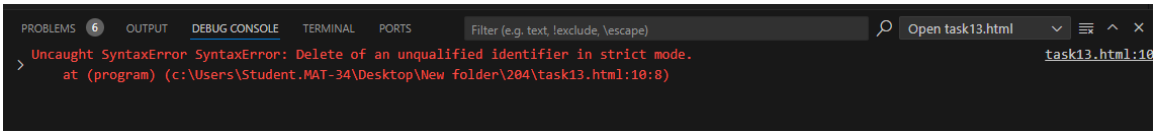
Output:



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:

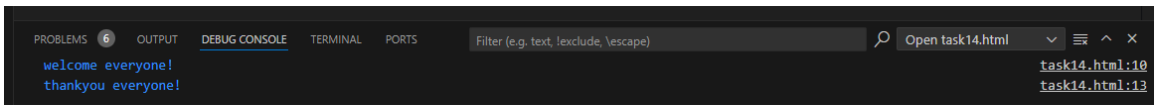


TASK14:

```
<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:

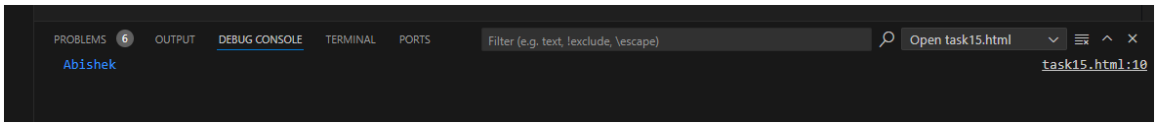


TASK15:

```
<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>
```

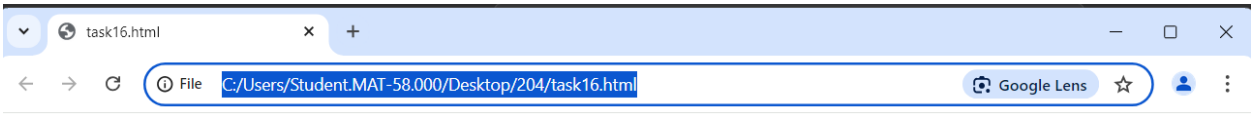
Output:



TASK 16:

```
<html>
   <body>
      <script>
         var name="priya";
         let age=12;
         const n=10;
         document.write(name+"<br>");
         document.write(age+"<br>");
         document.write(n+"<br>");
         document.write("if we want to redeclare a variable use var and if we want to reassign the value use let and if we want constant value use const")

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

OUTPUT:

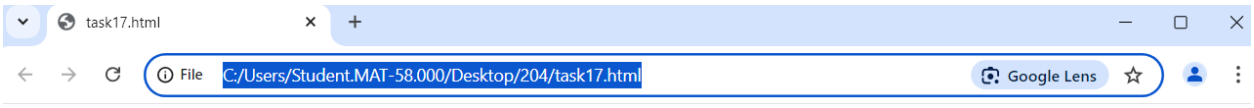


priya
12
10
if we want to redeclare a variable use var and if we want to reassign the value use let and if we want constant value use const

TASK 17:

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

OUTPUT:

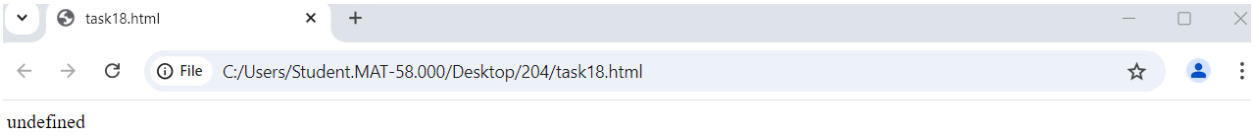


TASK18:

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

```
        <script>
            let a;
            document.write(a);
        </script>
    </body>
</html>
```

OUTPUT:

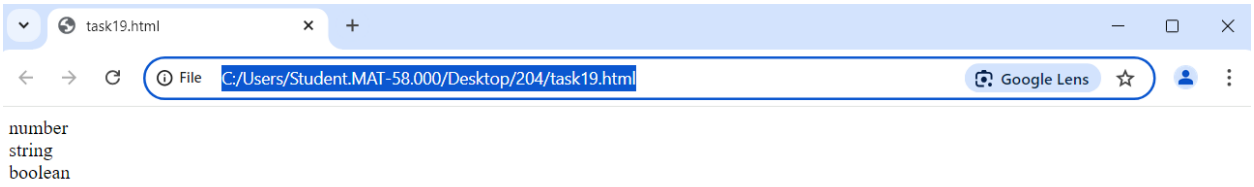


TASK 19:

```
<html>
    <body>
        <script>
            let a=10;
            var n="rose";
            let b=true;
            document.write(typeof a+"<br>");
            document.write(typeof n+"<br>");
```

```
        document.write(typeof b);
    </script>
  </body>
</html>
```

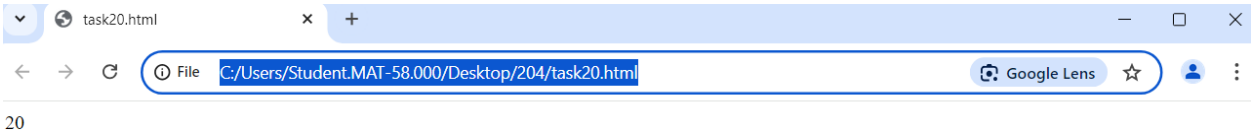
OUTPUT:



TASK 20:

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

OUTPUT:



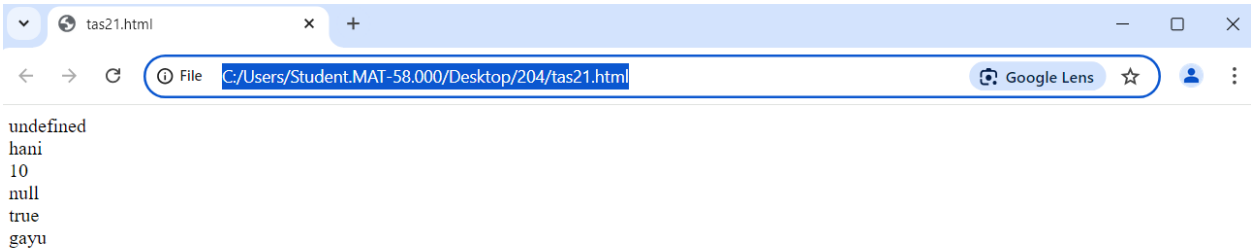
20

TASK 21:

```
<html>
   <body>
      <script>
         let a;
         let n=10;
         var s="hani";
         let d=null;
         let b=true;
         let o={
            name:"gayu"
         };
         document.write(a);
         document.write(s+"<br>");
         document.write(n+"<br>");
         document.write(d+"<br>");
         document.write(b+"<br>");
```

```
        document.write(o.name);
    </script>
    </script>
  </body>
</html>
```

OUTPUT:

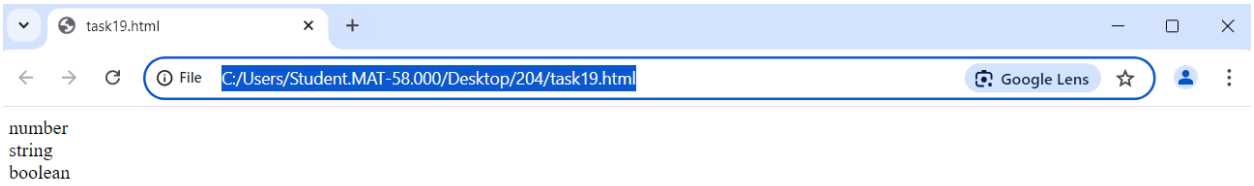


TASK22:

```
<html>
  <body>
    <script>
      let a=10;
      var n="rose";
      let b=true;
      document.write(typeof a+"<br>");
      document.write(typeof n+"<br>");
      document.write(typeof b);
```

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

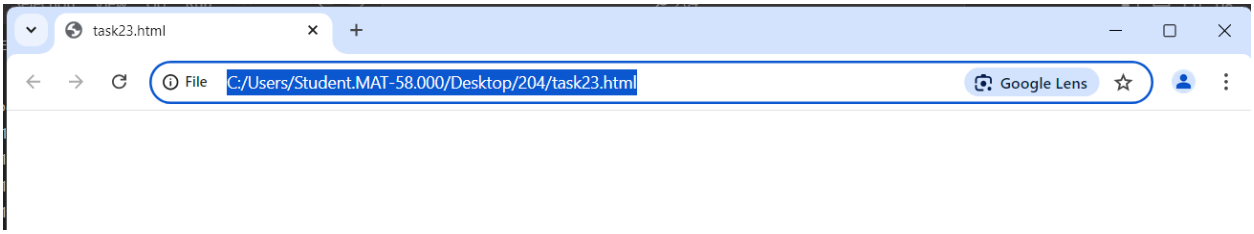
OUTPUT:



TASK 23:

```
<html>
  <body>
    <script>
      let a=$;
      document.write(typeof a);
    </script>
  </body>
</html>
```

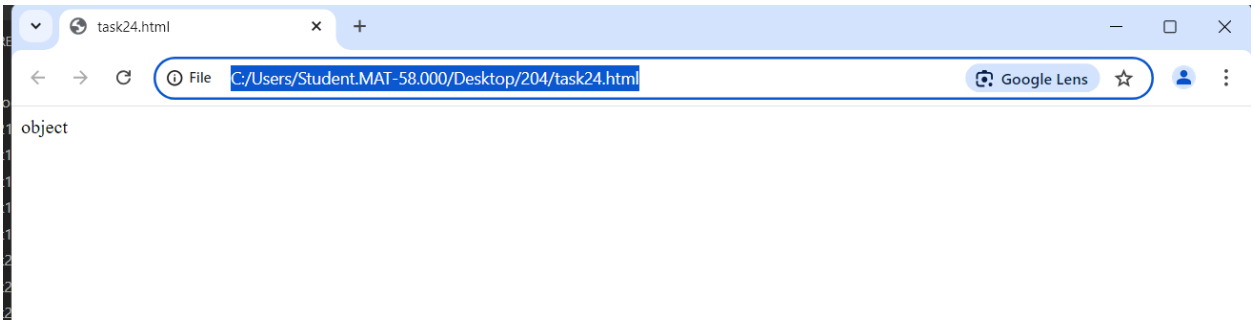
OUTPUT:



TASK 24:

```
<html>
   <body>
      <script>
         let a=null;
         document.write(typeof a);
      </script>
   </body>
</html>
```

OUTPUT:

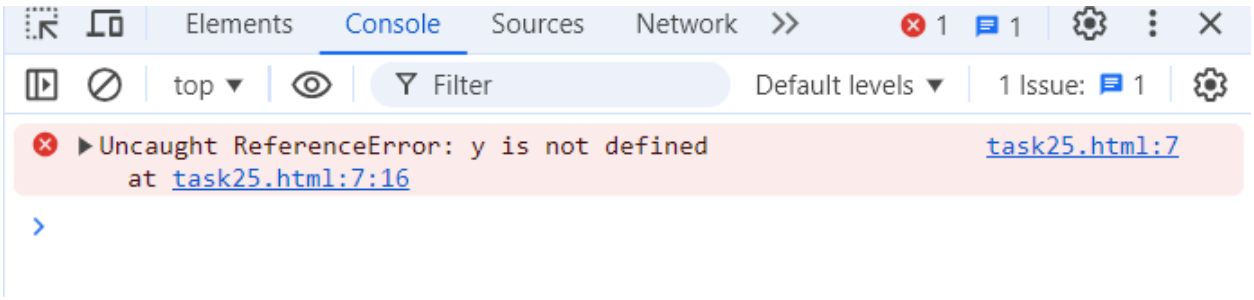


TASK 25:

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

```
        <script>
            if (true) {
  let y = 20;
}
console.log(y);
if (true) {
  var x = 10;
}
console.log(x);
        </script>
    </body>
</html>
```

OUTPUT:

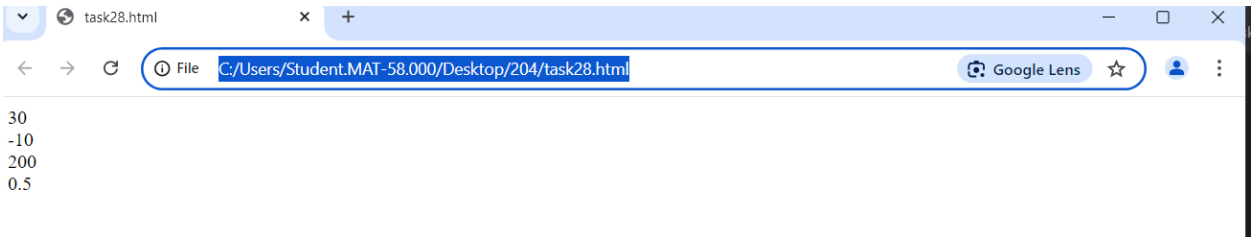


TASK 28:

```
<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:

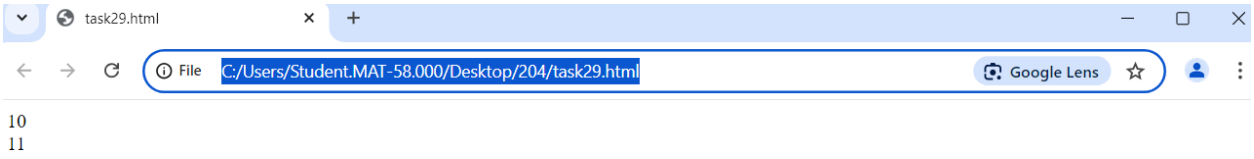


TASK 29:

```
<html>
  <body>
    <script>
        let a=10;
```

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

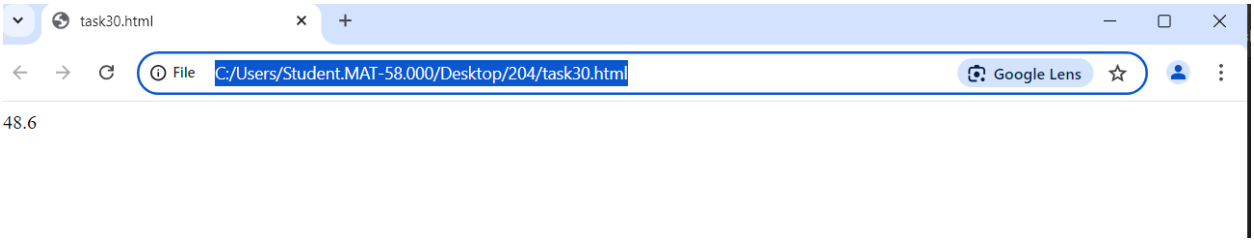
OUTPUT:



TASK 30:

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

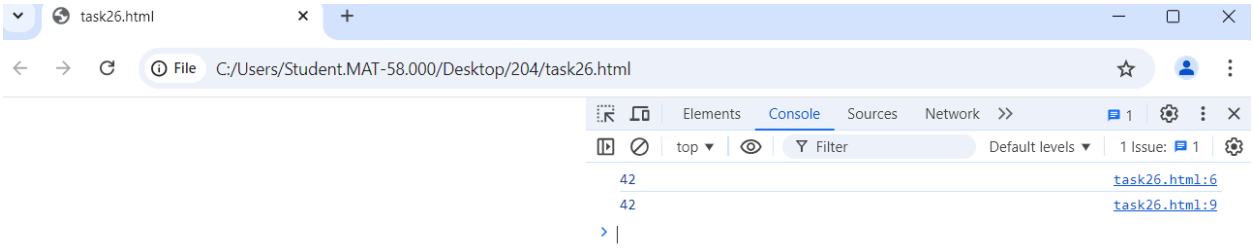
OUTPUT:



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>
```

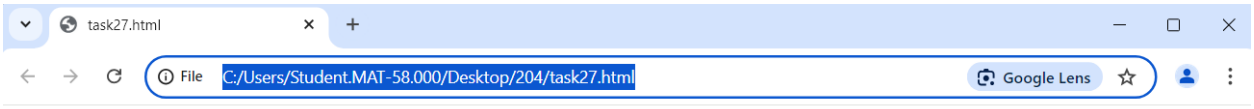
OUTPUT:



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:

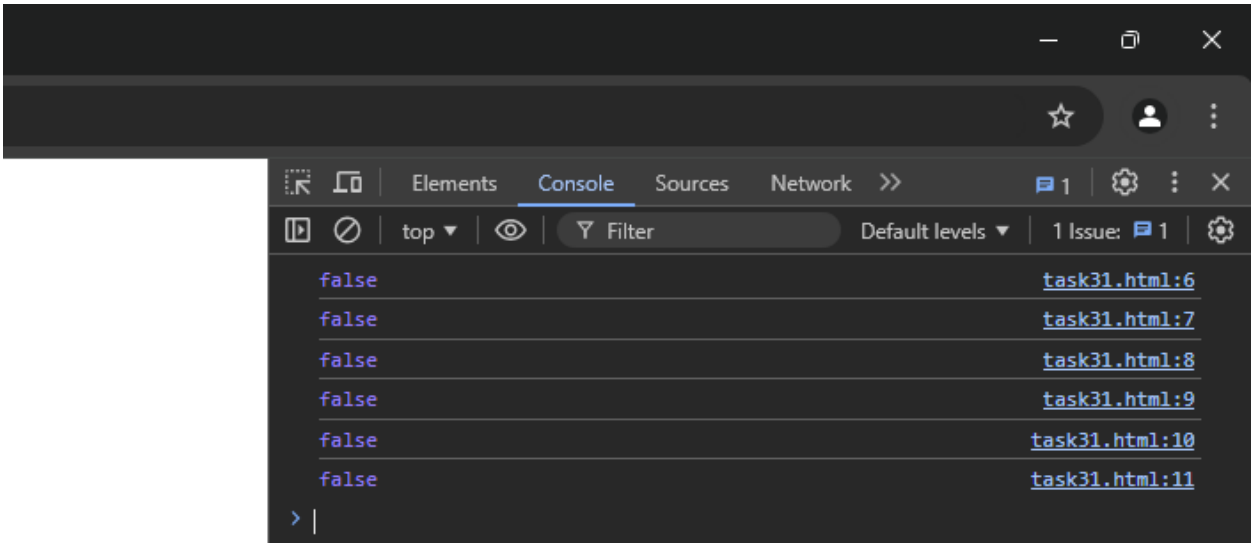


true
string
true
boolean

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>
```

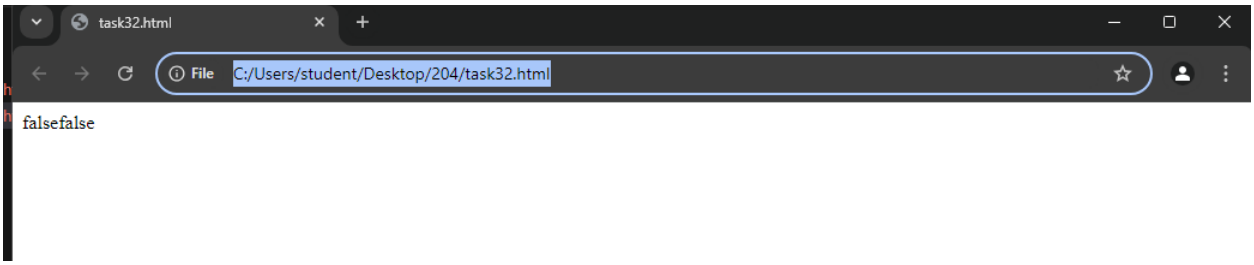
OUTPUT:



TASK 32:

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

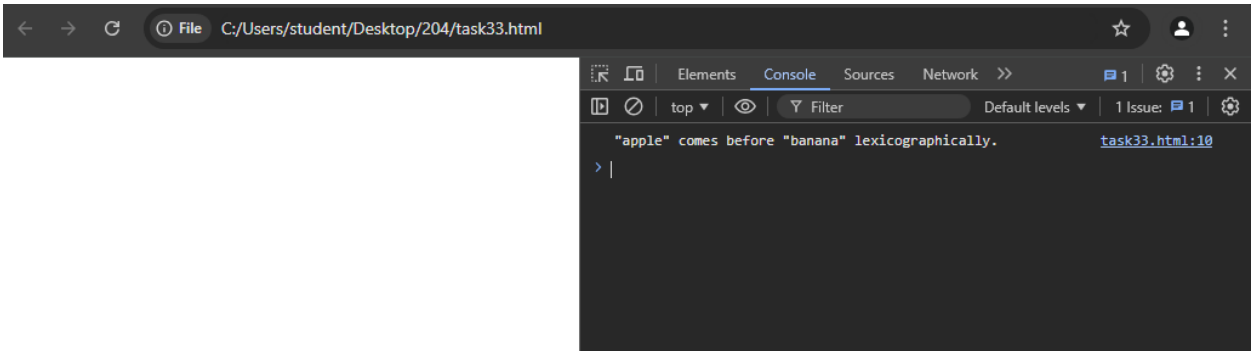
OUTPUT:



TASK33:

```
<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>
```



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>
```

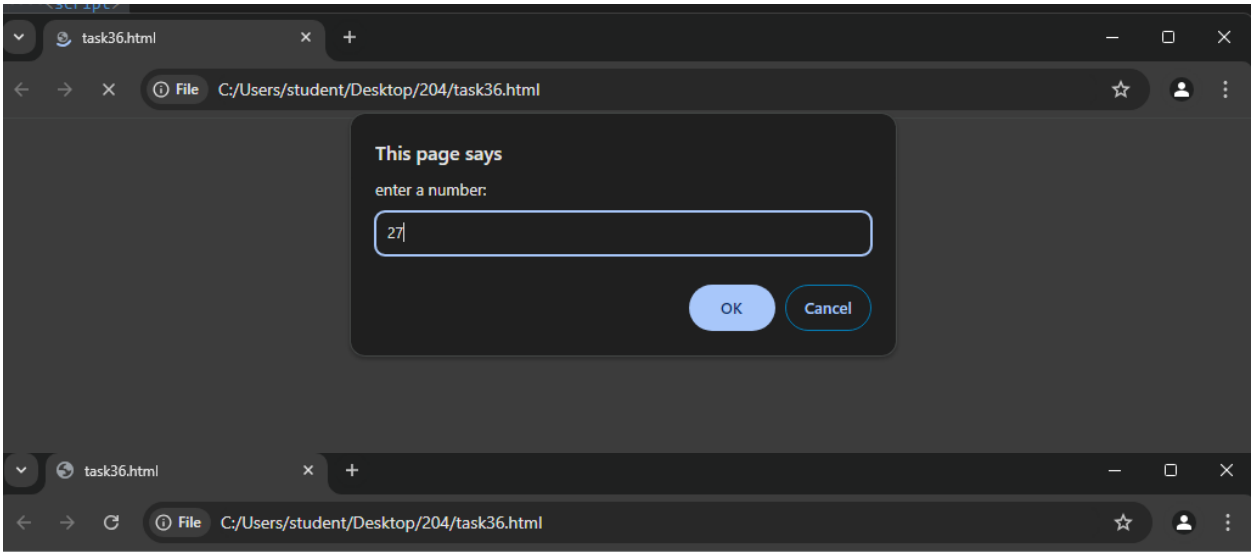
OUTPUT:

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:



odd

TASK 37:

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

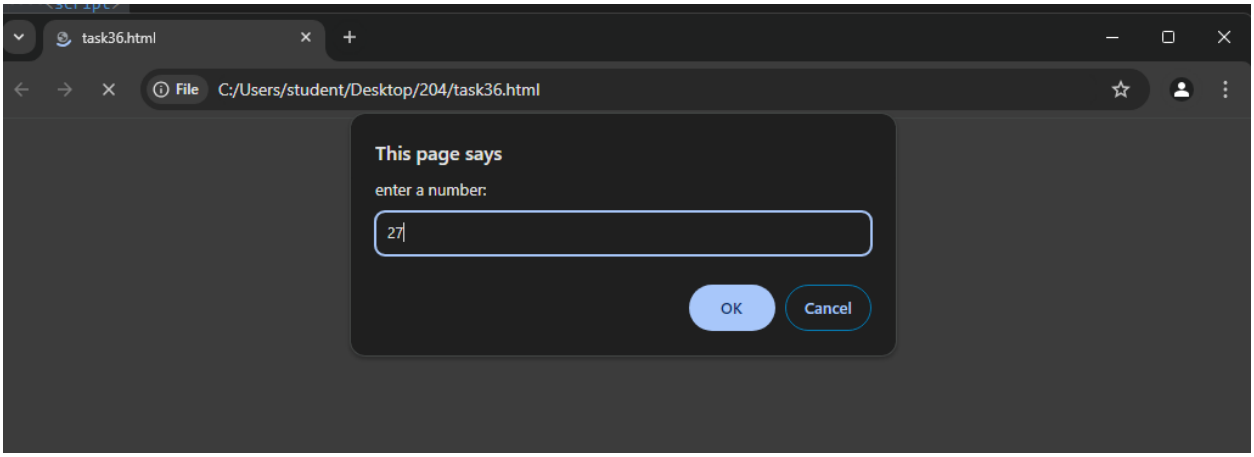
```
        if(a<0){
           document.write("negative<br>");
        }


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

OUTPUT:

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:

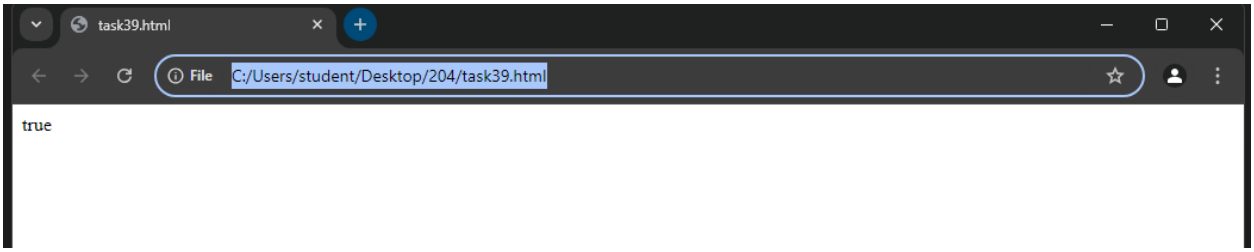


odd

TASK 39:

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

OUTPUT:



TASK 40:

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

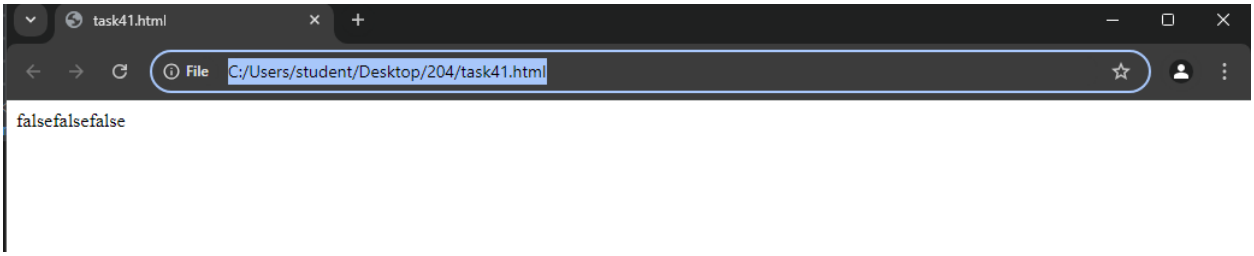
OUTPUT:

TASK 41:

```
<html>
  <body>
    <script>
      let a=10;
      let b=20;
```

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

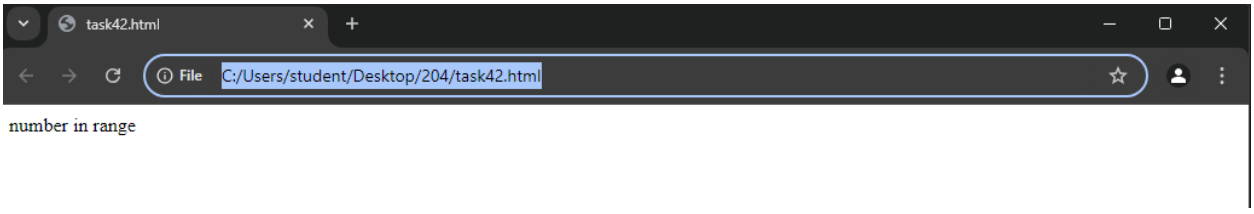
OUTPUT:



TASK 42:

```
<html>
<body>
  <script>
    let a=10;
    let b=(a>0 && a<=2000)?document.write("number in range"):document.write("number is not in range");
  </script>
</body>
</html>
```

OUTPUT:



TASK 43:

```
<html>
  <body>
    <script>
      let bool=true;
      document.write(!bool);      </script>
  </body>
</html>
```

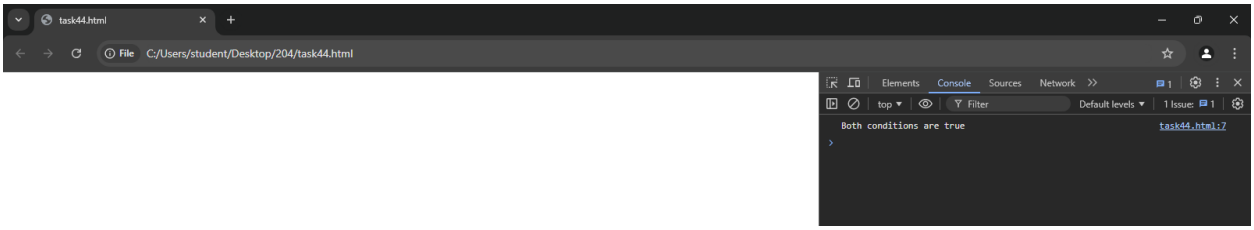
OUTPUT:

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:



TASK 45:

```
<html>
   <body>
      <script>
         let a=10;
         let b=90;
         document.write(a>b || a<b);
      </script>
   </body>
</html>
```

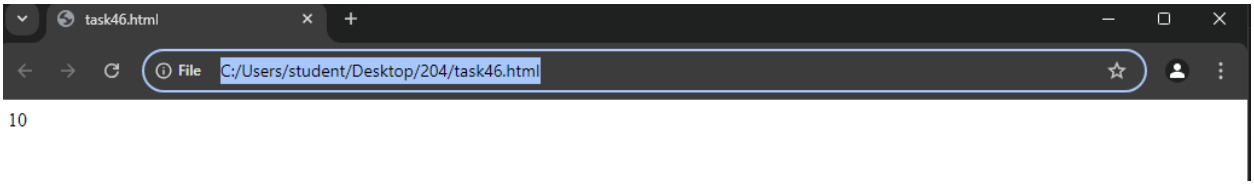
OUTPUT:

TASK 46:

```
<html>
   <body>
      <script>
         function sum(a,b){
document.write( a+b);
         }
```

```
        sum(5,5);
      </script>
   </body>
</html>
```

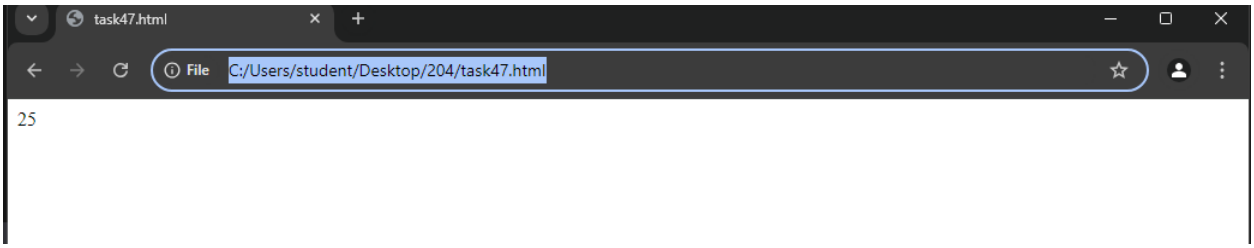
OUTPUT:



TASK 47:

```
<html>
   <body>
      <script>
         function area(l,b){
            document.write(l*b);
         }
         area(5,5);
      </script>
   </body>
</html>
```

OUTPUT:

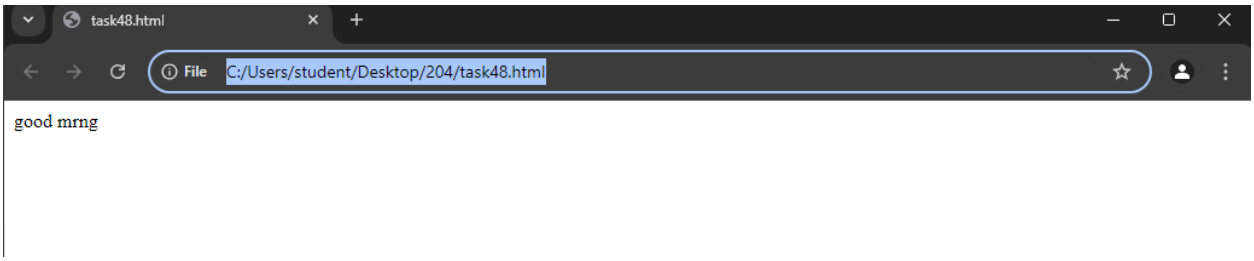


Task 48:

```
<html>
```

```
  <body>
    <script>
      function area(){
        document.write("good mrng");
      }
      area();
    </script>
  </body>
</html>
```

OUTPUT:

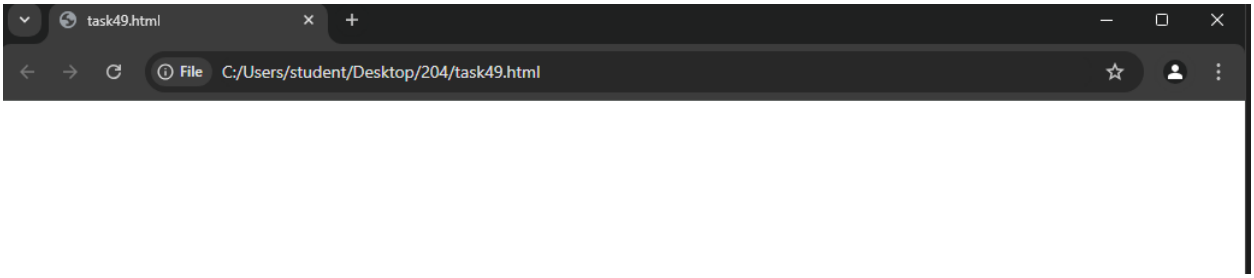


TASK 49:

```
<html>
  <body>
    <script>
      function greet()
      {


      }
      greet();
    </script>
  </body>
```

</html>

OUTPUT:



TASK 50:

```
<html>
   <body>
      <script>
         function sub(a,b){
            document.write(a-b+”<br>);
                  }
      sub(6,2);
      sub(9,6);
      sub(7,8);
      </script>
   </body>
</html>
```

OUTPUT:

4
3
-1