

TASK 51:

```
<html>

  <body>

    <script>

      let greet=(name)=>{

        document.write( "hello " + name);

      }

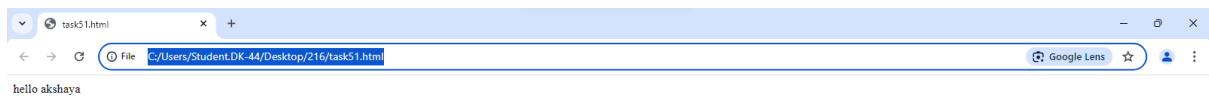
      greet("akshaya");

    </script>

  </body>

</html>
```

OUTPUT:



TASK 52:

```
<html>

  <body>

    <script>

      let add=(a,b)=>{

        document.write(a+b);

      }

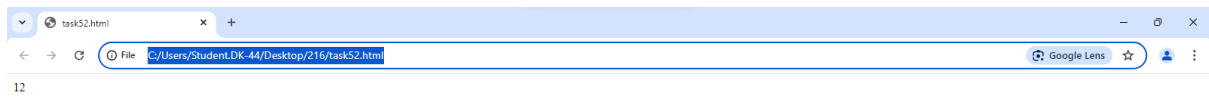
      add(5,7);

    </script>

  </body>

</html>
```

OUTPUT:



TASK 53:

```
<html>
```

```
<body>
```

```
<script>
```

```
let iseven=(a)=>{  
  if(a%2==0)  
    document.write("true");  
  else  
    document.write("false");  
}
```

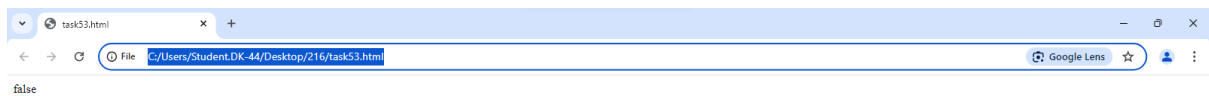
```
iseven(5);
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



TASK 54:

```
<html>
```

```
<body>
```

```
<script>
```

```
let maxValue=(a,b)=>{  
  if(a>b)
```

```

    {
        document.write("largest");
    }
    else{
        document.write("smallest");
    }
}

maxValue(10,20);

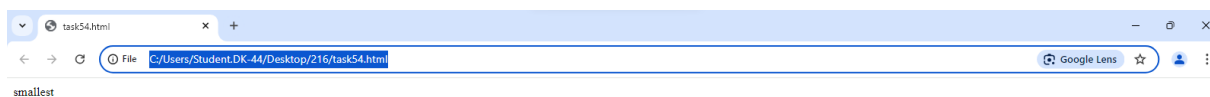
</script>

</body>

</html>

```

OUTPUT:



TASK 55:

```

<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:



TASK 11:

```

<html>

<body>

<script>

    a=42;

    document.write(a);

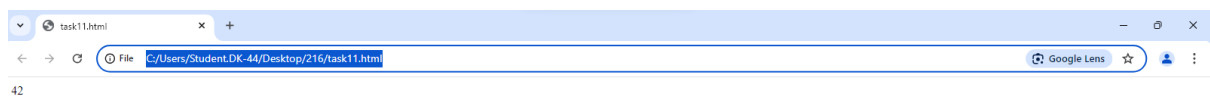
</script>

</body>

</html>

```

OUTPUT:



TASK 12:

```

<html>

<body>

```

```
<script>

    "use strict";

    a=42;

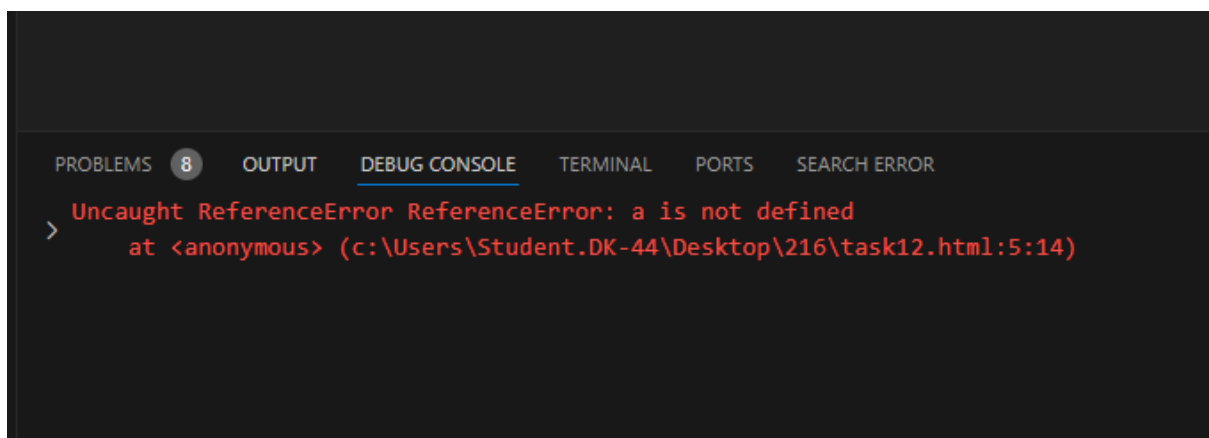
    document.write(a);

</script>

</body>

</html>
```

OUTPUT:



TASK 13:

```
<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";

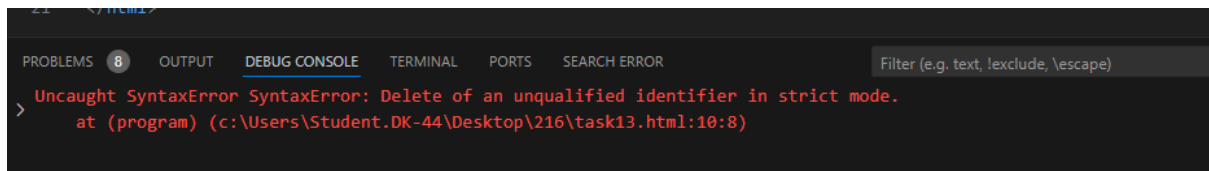
delete name;

"use strict";

function myfunction(){
```

```
return welcome guys!;  
}  
  
delete myfunction;  
  
"use strict";  
  
function myfunction(goodmorning)  
  
delete myfunction;  
  
</script>  
  
</body>  
  
</html>
```

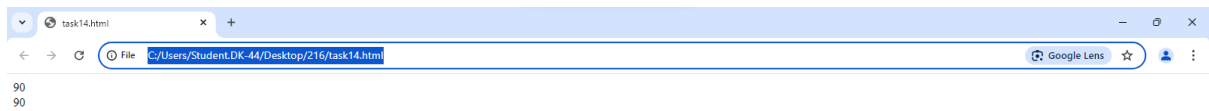
OUTPUT:



TASK 14:

```
<html>  
  
  <body>  
  
    <script>  
  
      x=90;  
  
      document.write(x+"<br>");  
  
      "use strict";  
  
      x=90;  
  
      document.write(x);  
  
    </script>  
  
  </body>  
  
</html>
```

OUTPUT:



TASK 15:

<html>

<body>

<script>

"use script";

let class=5;

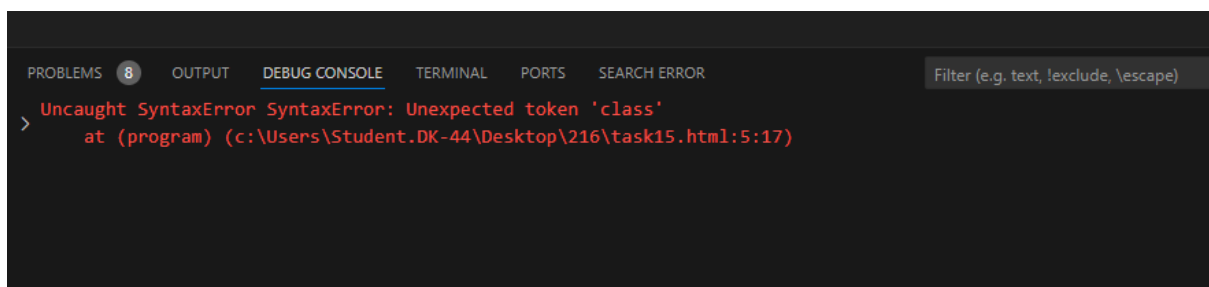
document.write(x);

</script>

</body>

</html>

OUTPUT:



TASK 16:

```
<html>

  <head>

    <title>variables</title>

  </head>

  <body>

    <script>

      var name="gayathiri";

      let a=10;

      const b=20;

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

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

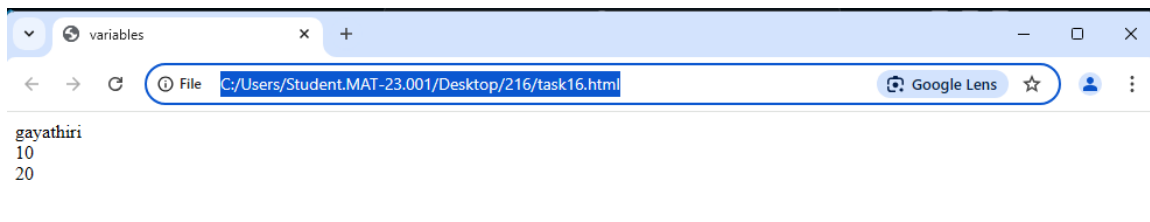
      document.write(b);

    </script>

  </body>

</html>
```

OUTPUT:



RESULT:

let defines a block-scoped variable that can be reassigned.

var defines a function-scoped variable that can be reassigned.

const defines a block-scoped constant that cannot be reassigned after initialization.

TASK 17:


```
<html>

<body>

  <script>

    const a=20;

    a=30;

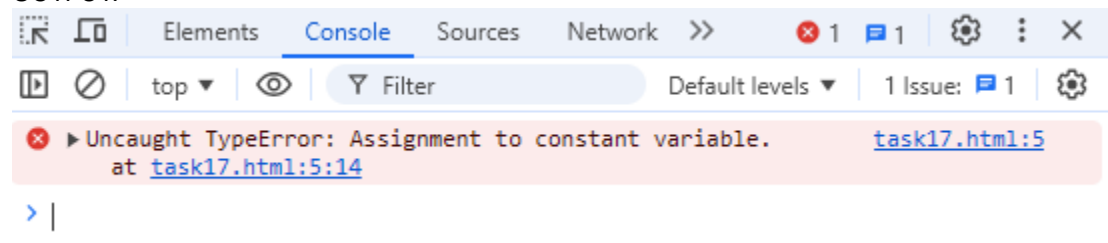
    document.write(a);

  </script>

</body>

</html>
```

OUTPUT:



RESULT:

const makes a variable that cannot be reassigned once it's given a value.

If you try to change the value of a const variable, JavaScript will give an error.

TASK 18:

```
<html>

<body>

  <script>

    let a;

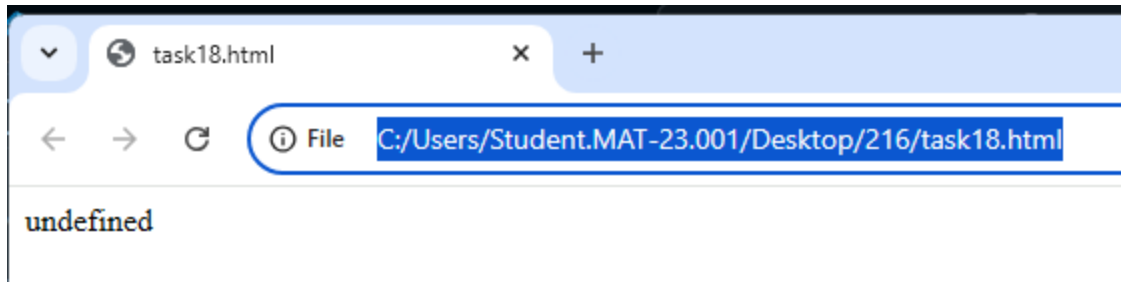
    document.write(a);

  </script>

</body>

</html>
```

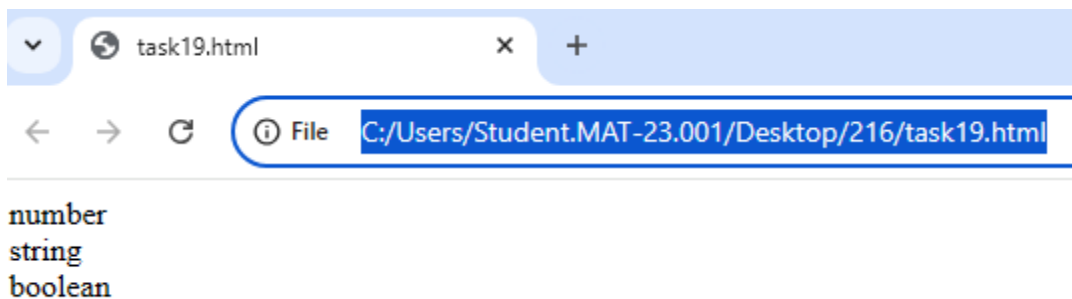
OUTPUT:



TASK 19:

```
<html>
  <body>
    <script>
      let a=20;
      var name="gayathiri";
      var boolean=true;
      document.write(typeof a+"<br>");
      document.write(typeof name+"<br>");
      document.write(typeof boolean+"<br>");
    </script>
  </body>
</html>
```

OUTPUT:



TASK 20:

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

```
<script>

    var a="gayu";

    var a="john";

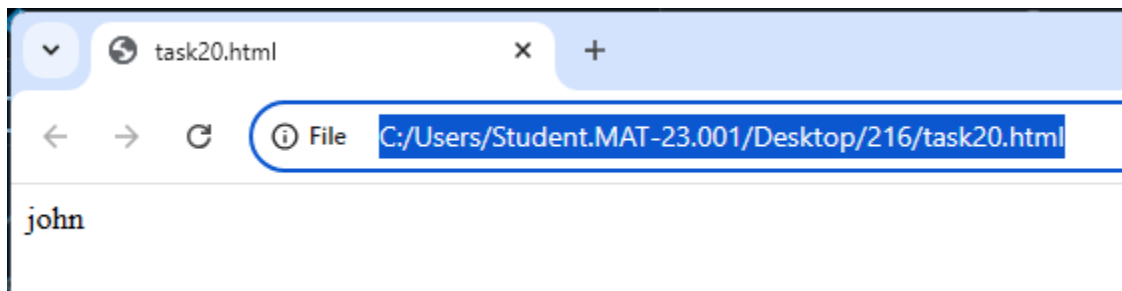
    document.write(a);

</script>

</body>

</html>
```

OUTPUT:



RESULT:

You can't literally rename the variable itself, but you can assign its value to a new variable with a different name. The original variable still exists unless you remove it or stop using it.

TASK 21:

```
<html>

<body>

    <script>

        var name="gayathiri";

        let a=12;

        let boolean=true;

        let b=null;

        let student={

            name:"gayu",

            dept:"CSE"

        };

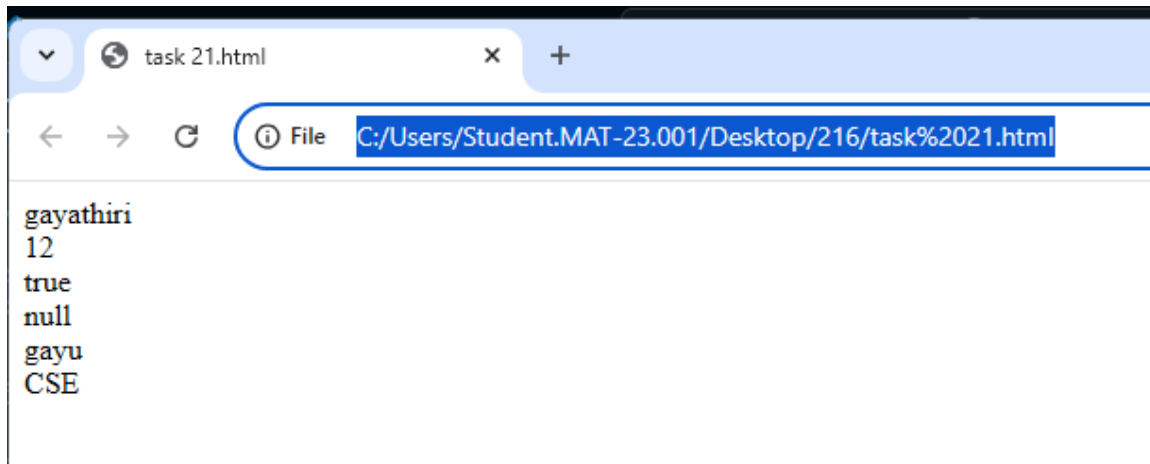
    </script>

</body>

</html>
```

```
document.write(name+"<br>");  
  
document.write(a+"<br>");  
  
document.write(boolean+"<br>");  
  
document.write(b+"<br>");  
  
document.write(student.name+"<br>");  
  
document.write(student.dept+"<br>");  
  
</script>  
  
</body>  
  
</html>
```

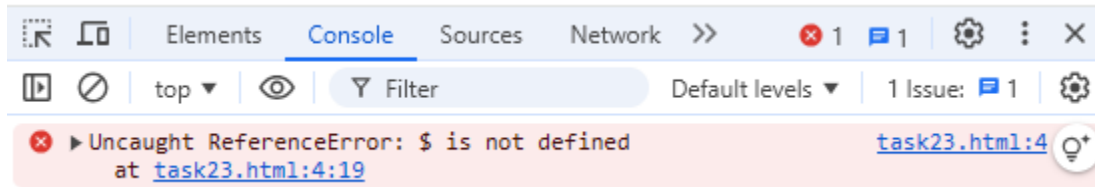
OUTPUT:



TASK 22:

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

OUTPUT:



TASK 23:

```
<html>

  <body>

    <script>

      let a=$;

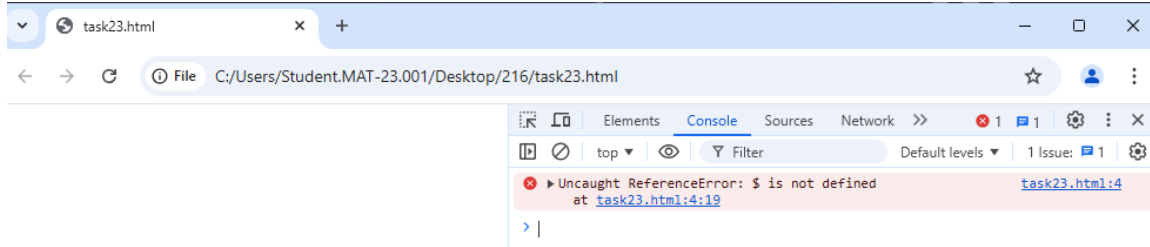
      document.write(a);

    </script>

  </body>

</html>
```

OUTPUT:



TASK 24:

```
<html>

  <body>

    <script>

      let a=null;

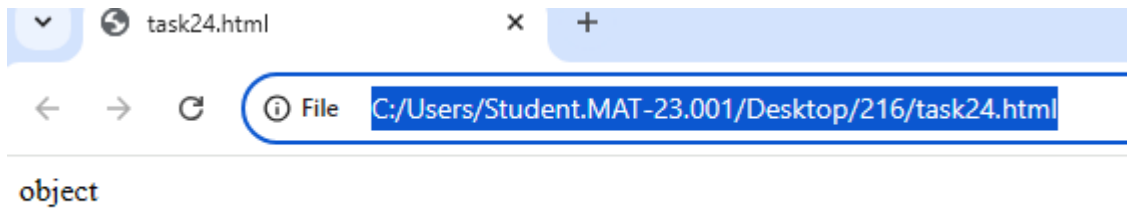
      document.write(typeof a);

    </script>

  </body>

</html>
```

OUTPUT:



TASK 25:

```
<html>

  <body>

    <script>

      if (true) {

        var x = 10;

      }

      console.log(x);

      if (true) {

        let y = 20;

      }

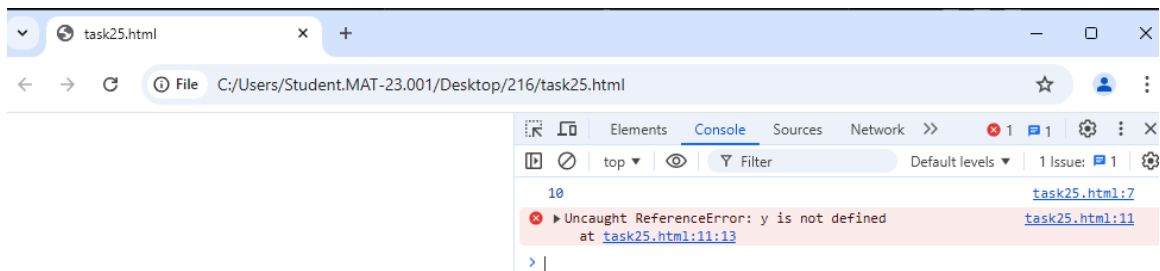
      console.log(y);

    </script>

  </body>

</html>
```

OUTPUT:



RESULT:

SCOPE OF var: Variables declared with var are function-scoped. This means that they are only accessible

within the function they are declared in, or globally if declared outside any function.

SCOPE OF let: Scope: Variables declared with var are function-scoped. This means that they are only accessible within the function they are declared in, or globally if declared outside any function.

TASK 26:

```
<html>

<body>

  <script>

    let str = "42";

    let num = str * 1

    console.log(num);

    let str1 = "42";

    let num1= parseInt(str1);

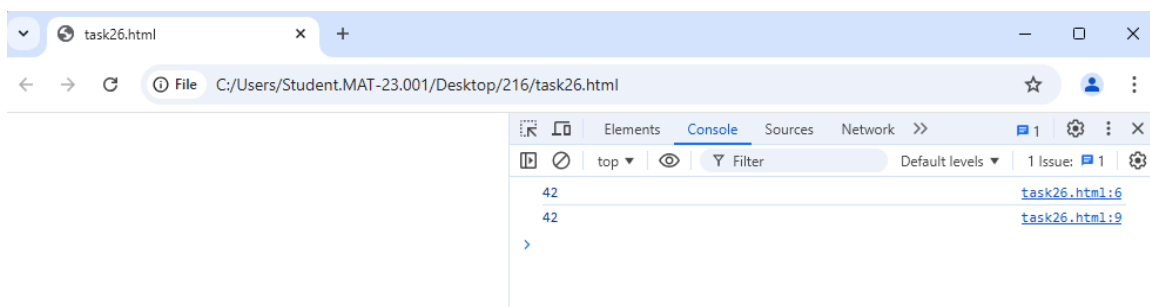
    console.log(num1);

  </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>");

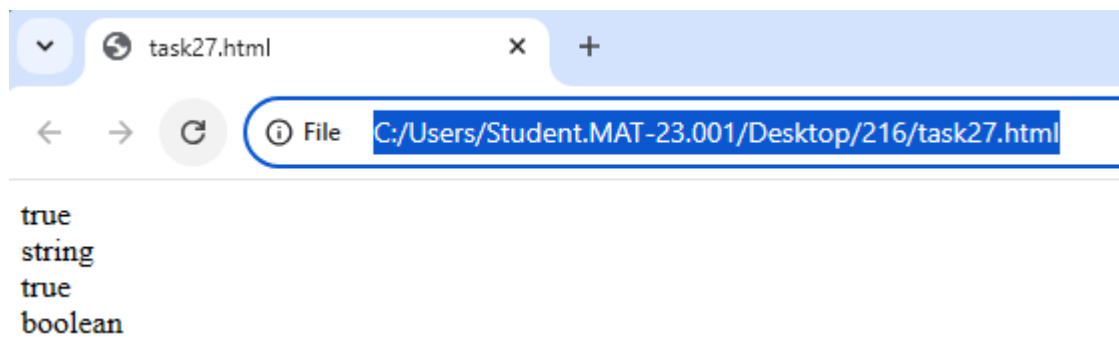
document.writeln( typeof bool+ "<br>");

</script>

</body>

</html>
```

OUTPUT:



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>");

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

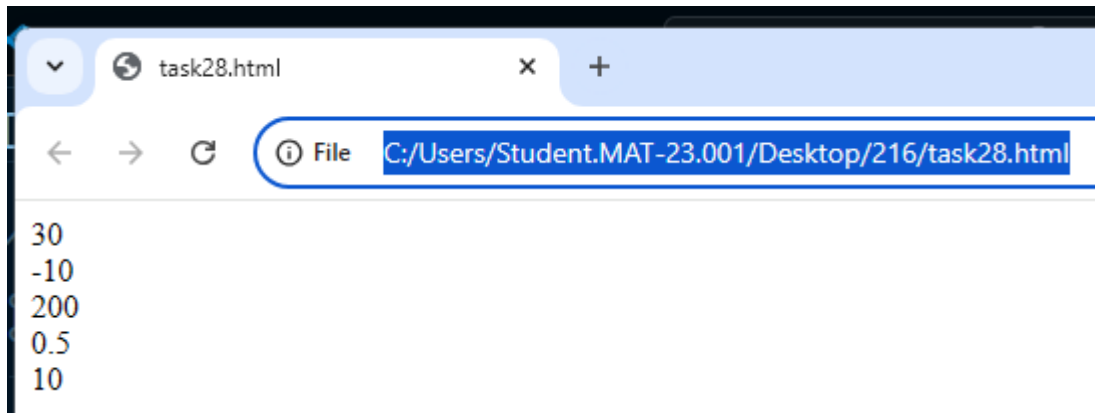


```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



TASK 29:

```
<html>
```

```
<body>
```

```
<script>
```

```
    let a=5;
```

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

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

```
    document.write(a-- +"<br>");
```

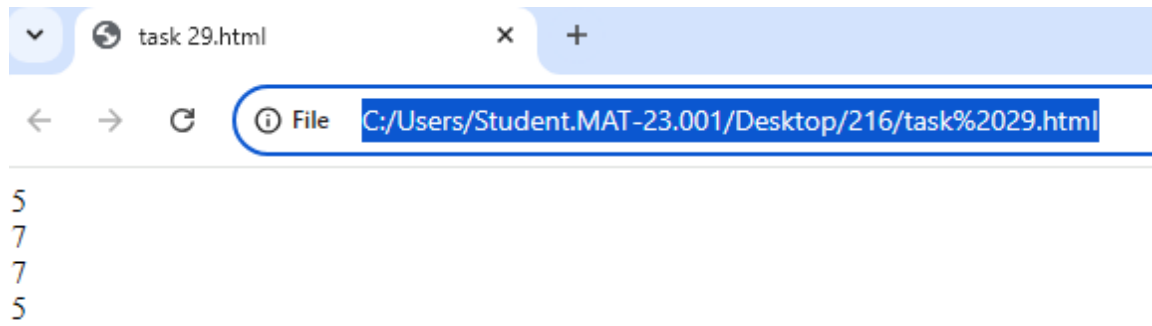
```
    document.write(--a +"<br>");
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



TASK 30:

```
<html>
```

```
  <body>
```

```
    <script>
```

```
      let a=5;
```

```
      let b=10;
```

```
      let c=13;
```

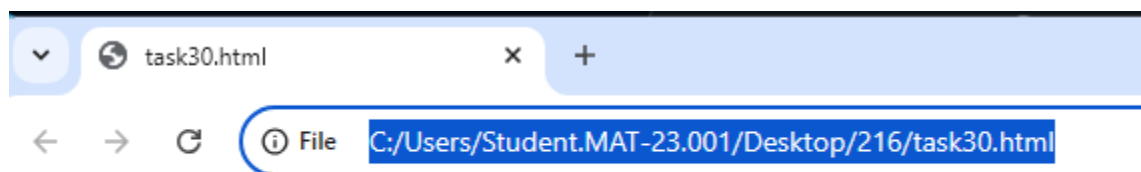
```
      document.write(a+b*c/a+2);
```

```
    </script>
```

```
  </body>
```

```
</html>
```

OUTPUT:



TASK 31:

```
<html>

<body>

  <script>

    let a=10;

    let b=20;

    console.log(a>b + "<br>");

    console.log(a<b + "<br>");

    console.log(a>=b + "<br>");

    console.log(a<=b + "<br>");

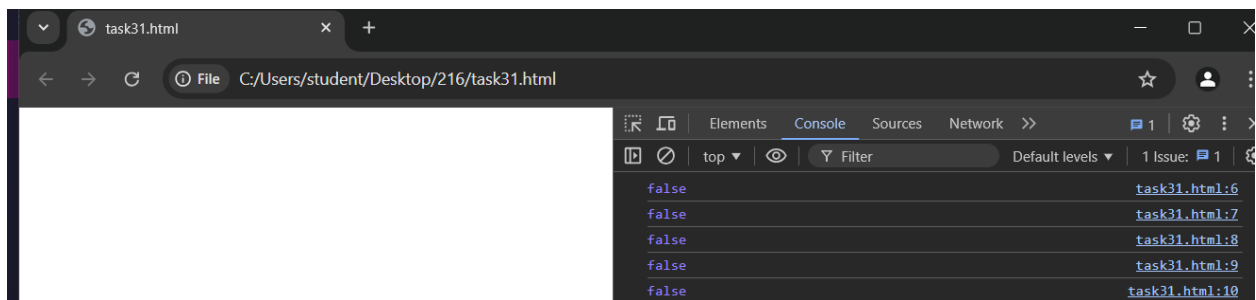
    console.log(a==b + "<br>");

  </script>

</body>

</html>
```

OUTPUT:



TASK 32:

```
<html>

<body>

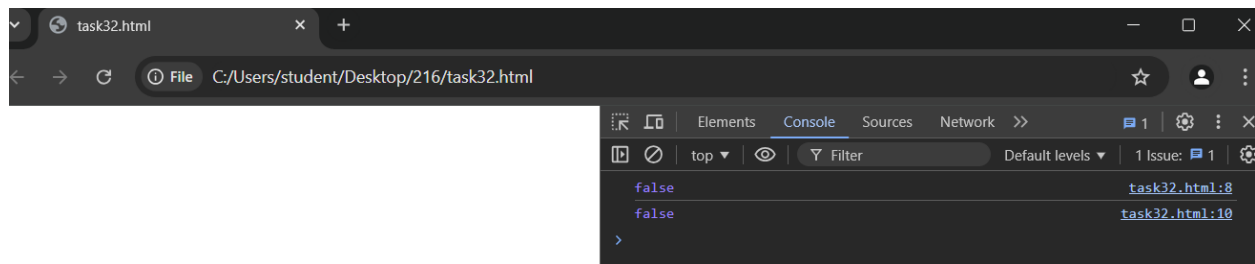
  <script>

    let a=10;

    let b=20;
```

```
let c= (a==b);  
  
console.log(c);  
  
let d=(a===b);  
  
console.log(d);  
  
</script>  
  
</body>  
  
</html>
```

OUTPUT:

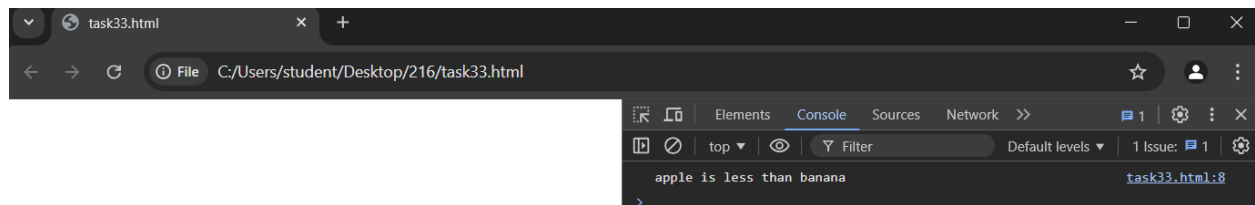


TASK 33:

```
<html>  
  
<body>  
  
<script>  
  
let str1 = "apple";  
  
let str2 = "banana";  
  
if (str1 < str2) {  
    console.log(`${str1} is less than ${str2}`);  
} else if (str1 > str2) {  
    console.log(`${str1} is greater than ${str2}`);  
} else {
```

```
    console.log(`${str1} is equal to ${str2}`);  
}  
  
</script>  
  
</body>  
  
</html>
```

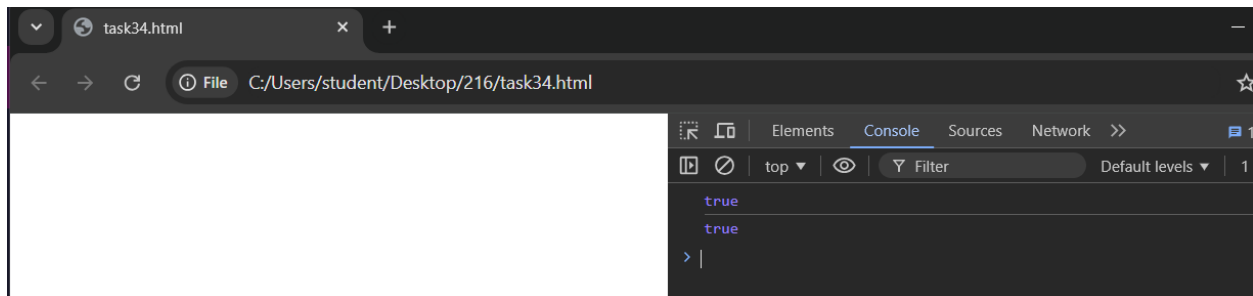
OUTPUT:



TASK 34:

```
<html>  
  
  <body>  
  
    <script>  
  
      let a=30;  
  
      let b=50;  
  
      console.log(a!=b);  
  
      console.log(a!==b);  
  
    </script>  
  
  </body>  
  
</html>
```

OUTPUT:



TASK 35:

```
<html>
```

```
<body>
```

```
<script>
```

```
  let a=null;
```

```
  let b=null;
```

```
  console.log(a==b);
```

```
  console.log(a===b);
```

```
  let c;
```

```
  let d;
```

```
  console.log(c==d);
```

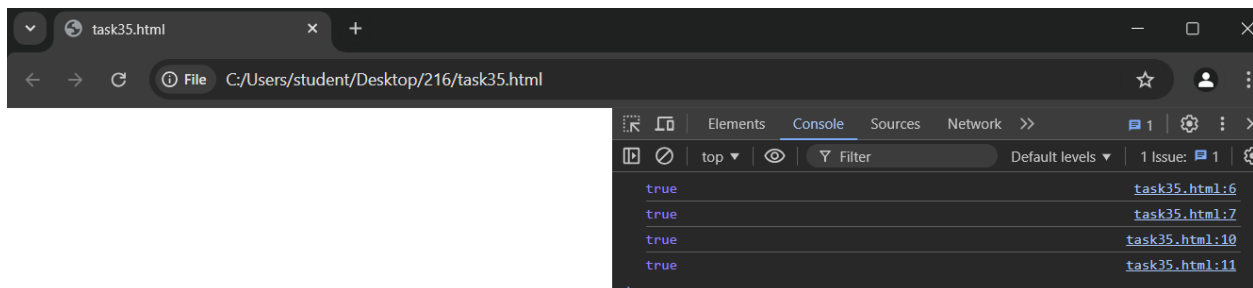
```
  console.log(c===d);
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



TASK 36:

```
<html>

<body>

  <script>

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

    if(a%2==0)

    {

      document.write("it is even number");

    }

    else{

      document.write("it is odd number");

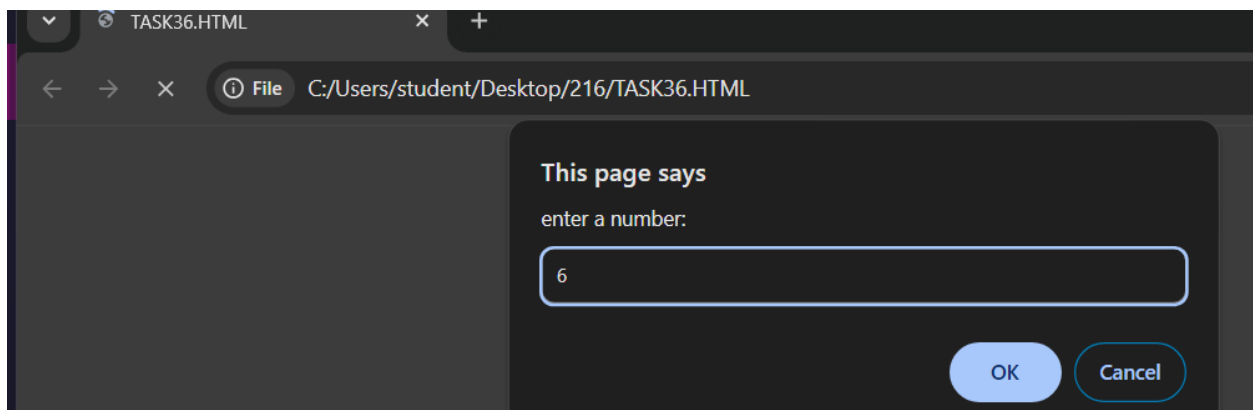
    }

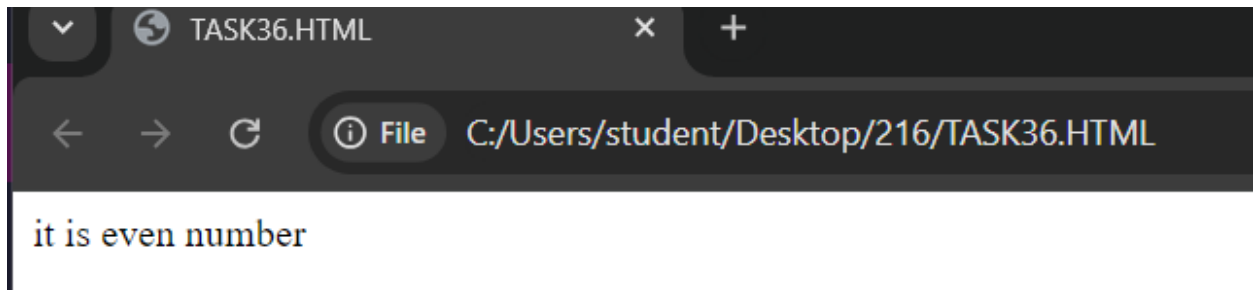
  </script>

</body>

</html>
```

OUTPUT:





TASK 37:

```
<html>
```

```
<body>
```

```
<script>
```

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

```
    if(a==0)
```

```
{
```

```
    document.write("it is zero");
```

```
}
```

```
    if(a>0)
```

```
{
```

```
    document.write("it is positive");
```

```
}
```

```
    if(a<0)
```

```
{
```

```
    document.write("it is negative");
```

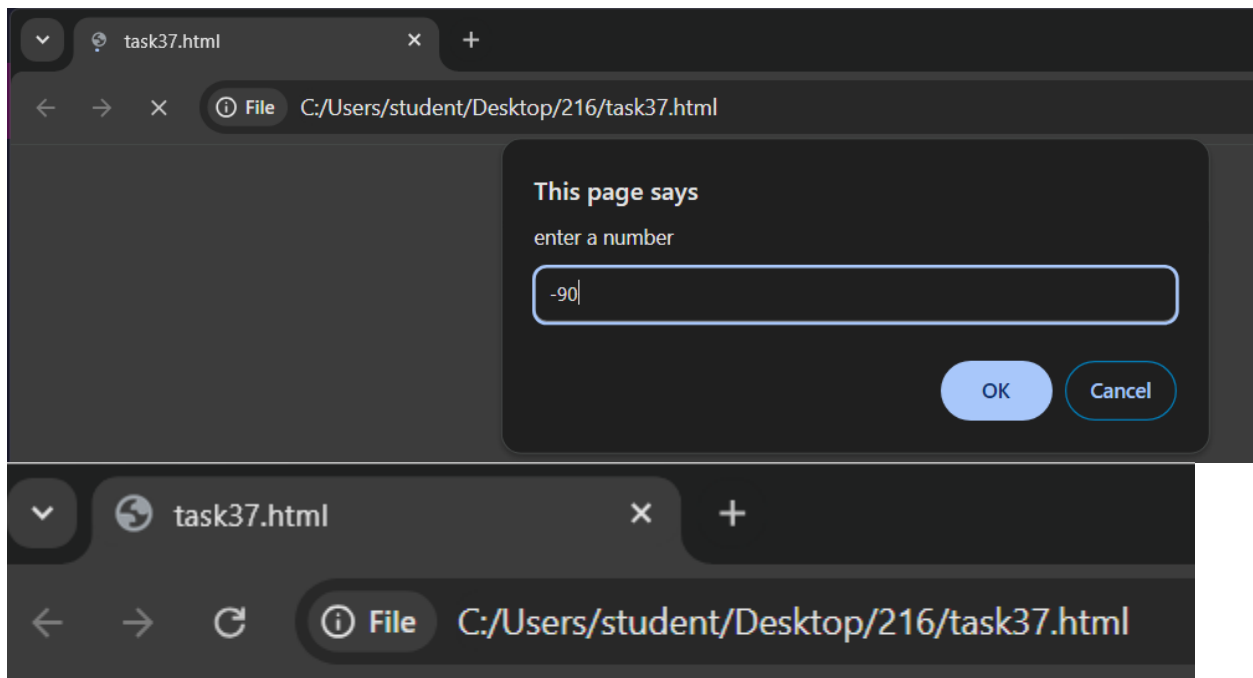
```
}
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



it is negative

TASK38:

```
<html>
```

```
<body>
```

```
<script>
```

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

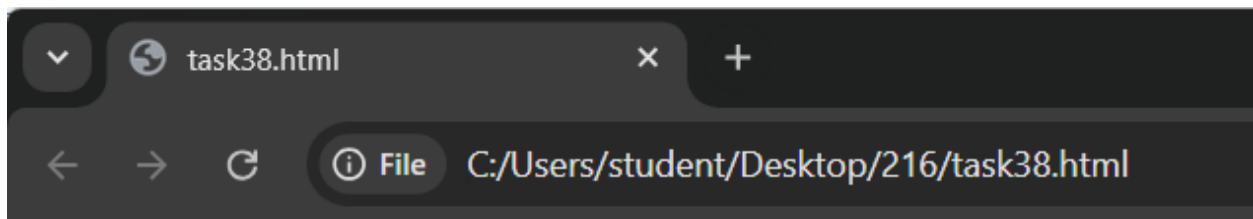
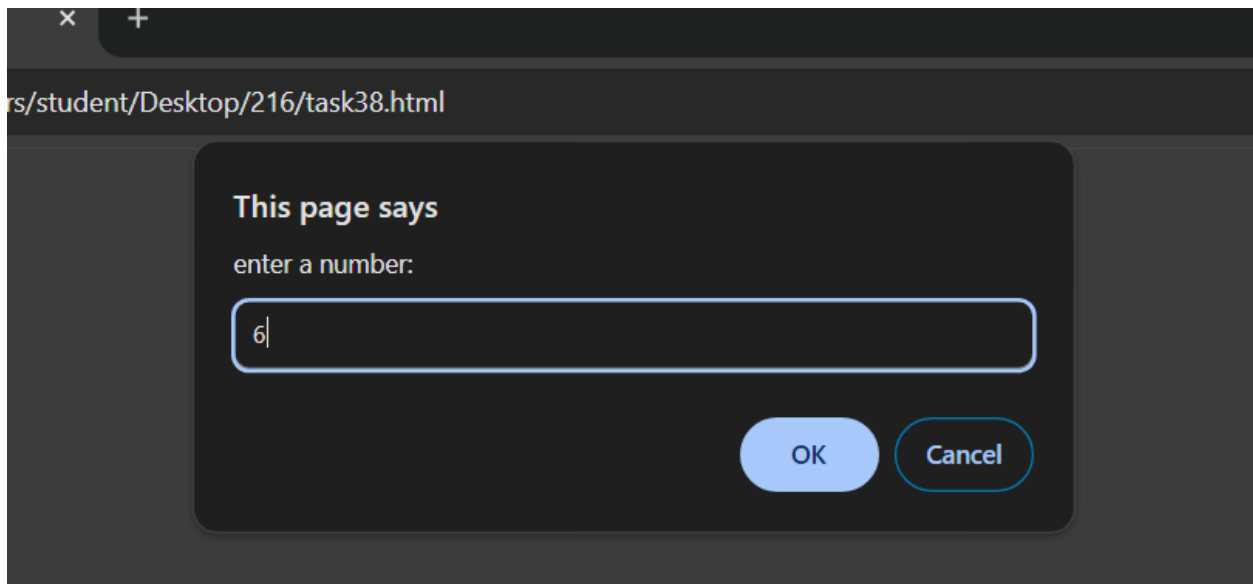
```
    let result=(a%2==0)?document.write("even"):document.write("odd");
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



even

TASK 39:

```
<html>
```

```
  <body>
```

```
    <script>
```

```
      let a=20;
```

```
      document.write(a?true:false);
```

```
    </script>
```

```
  </body>
```

```
</html>
```

OUTPUT:



TASK 40:

```
<html>
```

```
<body>
```

```
<script>
```

```
let a=2;
```

```
let b=3;
```

```
let result=(a>b)?document.write("largest"):document.write("smallest");
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



TASK 41:

```
<html>
```

```
<body>
```

```
<script>
```

```
let a=20;
```

```
let b=40;
```

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

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

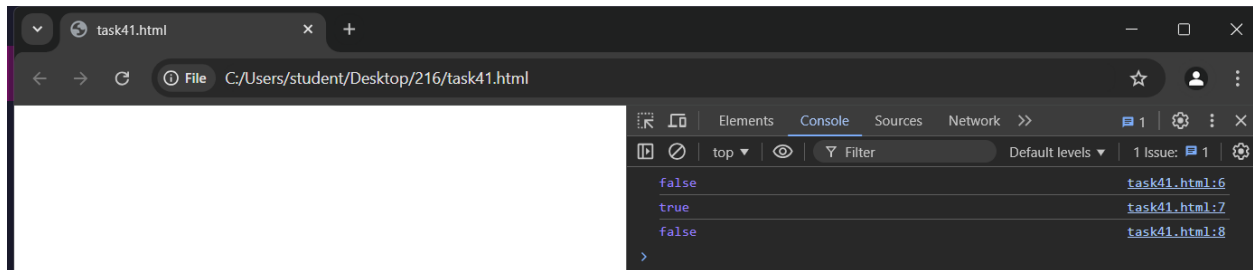
```
console.log(!a);
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



TASK 42:

```
<html>
```

```
<body>
```

```
<script>
```

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

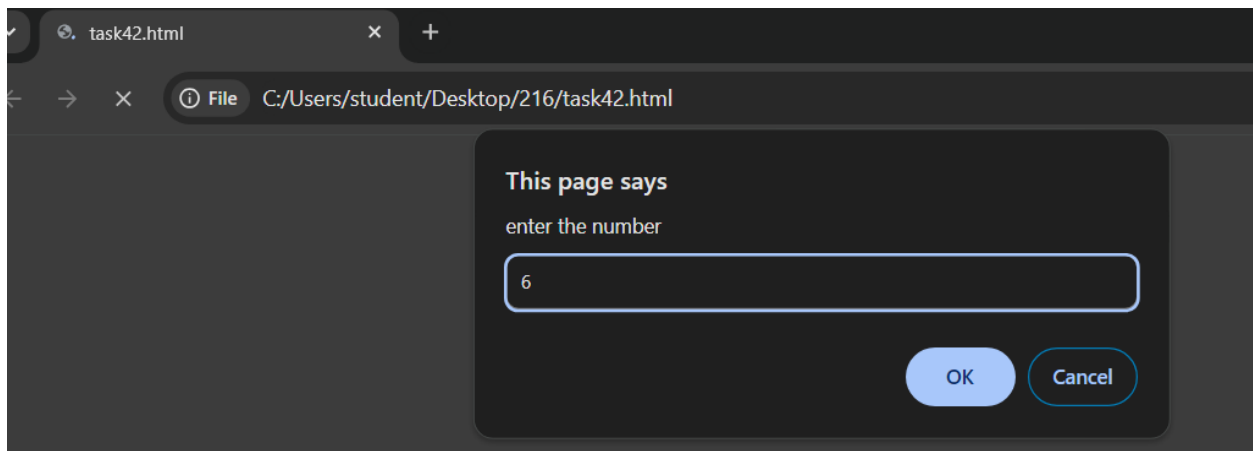
```
let b=(a>40 && a<60)?document.write("it is in range"):document.write("it is not in range");
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:





TASK 43:

```
<html>

<body>

  <script>

    let boolean=true;

    document.write(!boolean);

  </script>

</body>

</html>
```

OUTPUT:



TASK 44:

```
<html>

<body>

  <script>

    const a = 5;

const b = 10;

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

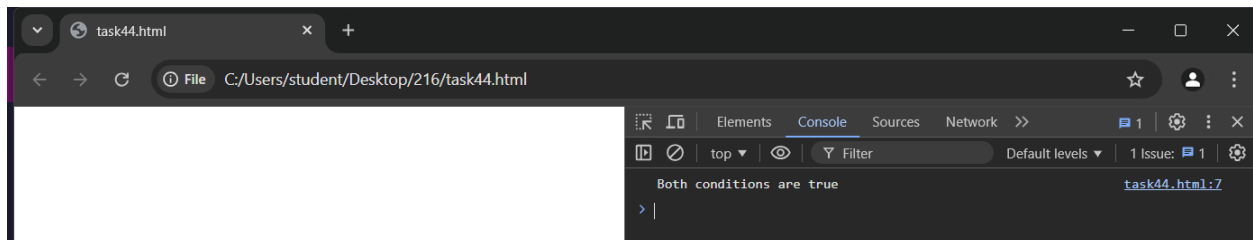
console.log(result);

  </script>

</body>
```

</html>

OUTPUT:



TASK 45:

<html>

<body>

<script>

let a=5;

let b=20;

console.log(a | b);

console.log(a&& b);

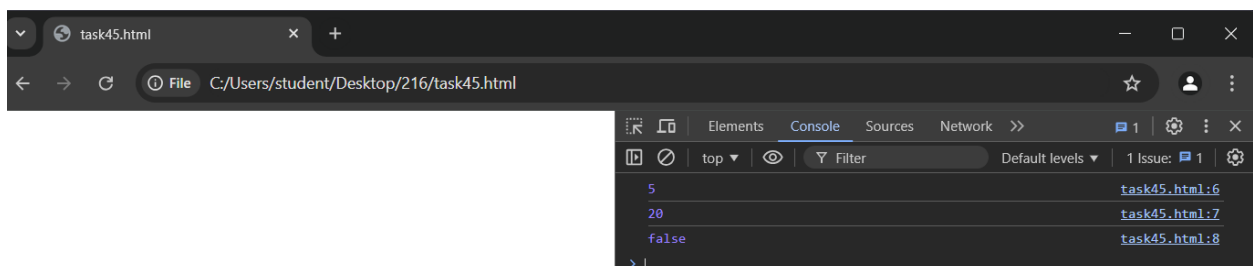
console.log(!b);

</script>

</body>

</html>

OUTPUT:



TASK 46:

<html>

```
<body>

<script>

    function sum(a,b)

    {

        document.write(a+b);

    }

    sum(60,8);

</script>

</body>

</html>
```

OUTPUT:



TASK 47:

```
<html>

<body>

<script>

    function area(l,b)

    {

        document.write(l*b);

    }

    area(5,6);

</script>
```



```
</body>
```

```
</html>
```

OUTPUT:



TASK 48:

```
<html>
```

```
<body>
```

```
<script>
```

```
function call()
```

```
{
```

```
    document.write("this is gayathiri");
```

```
}
```

```
call();
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



TASK 49:

```
<html>
```

```
<body>
```

```
<script>
```

```
function call()

{

}

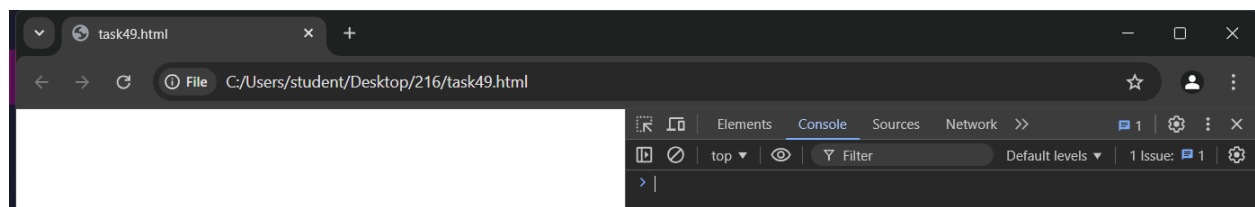
call();

</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");

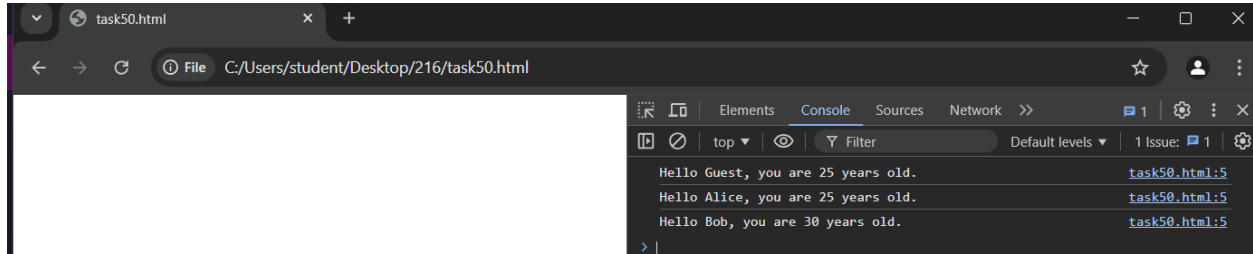
    greet("Bob", 30);

  </script>
```

</body>

</html>

OUTPUT:



TASK 1:

```
<!DOCTYPE html>

<head>

  <title>introduction to javascript</title>

</head>

<body>

  <script>

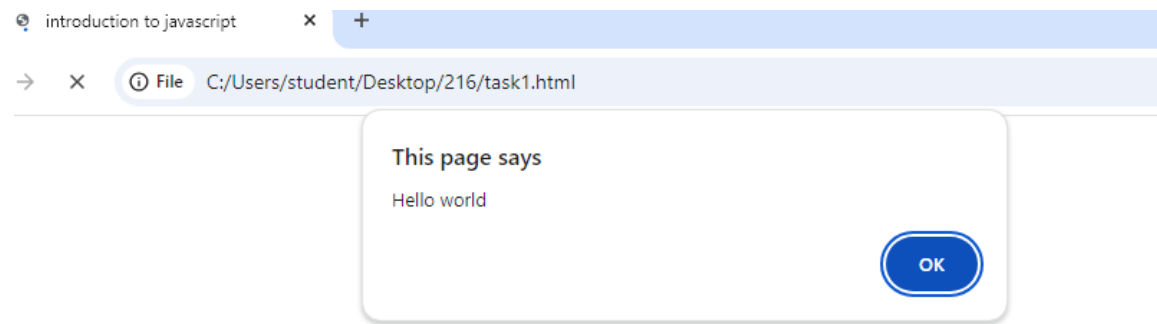
    alert("Hello world");

  </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);

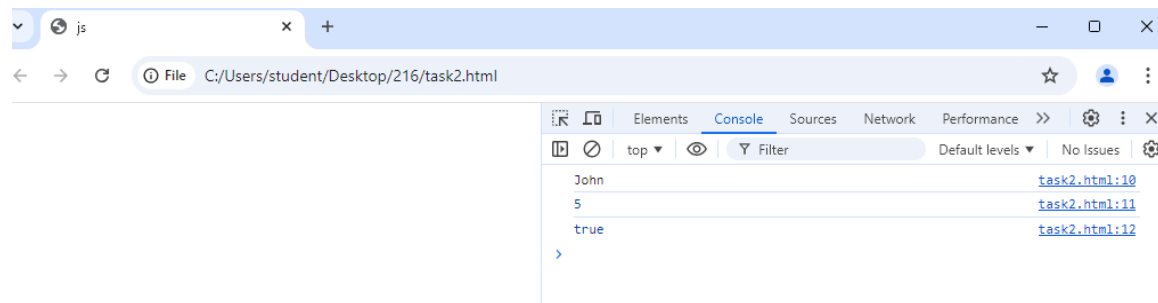
console.log(num);

console.log(bool);

</script>

</html>
```

OUTPUT:



TASK 3:

```
<!DOCTYPE html>

<head>

  <title>

    introduction

  </title>

</head>

<body>

  <script>

    const a=10;

    const b=20;

    console.log(a+b);

    console.log(a-b);

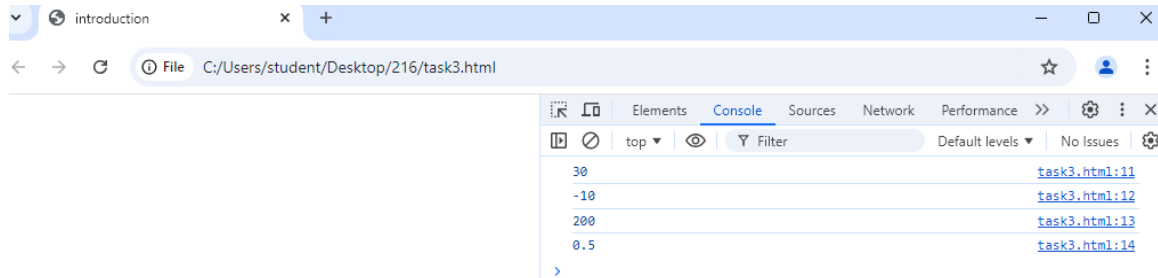
    console.log(a*b);
```

```
console.log(a/b);
```

```
</script>
```

```
</body>
```

OUTPUT:



TASK 4:

```
<!DOCTYPE html>
```

```
<head>
```

```
  <title>introduction</title>
```

```
</head>
```

```
<body>
```

```
  <script>
```

```
    var name1="john";
```

```
    var name2="ram";
```

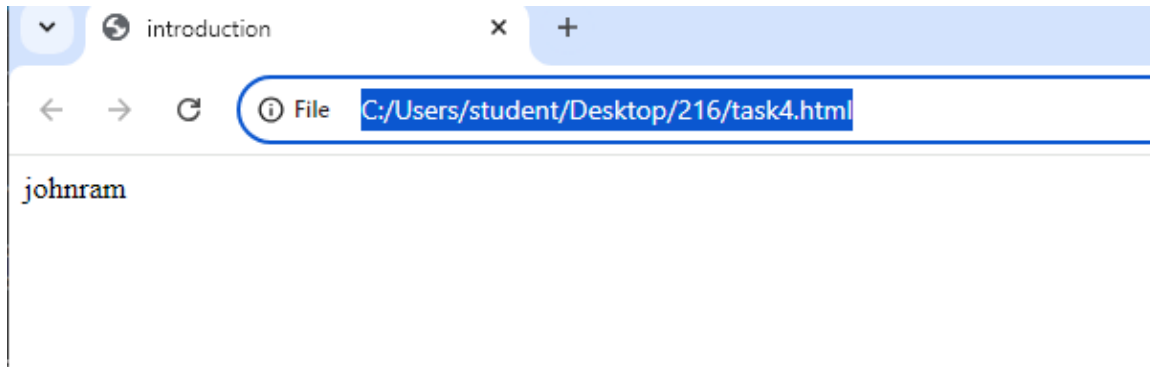
```
    document.write(name1+name2);
```

```
  </script>
```

```
</body>
```

```
</html>
```

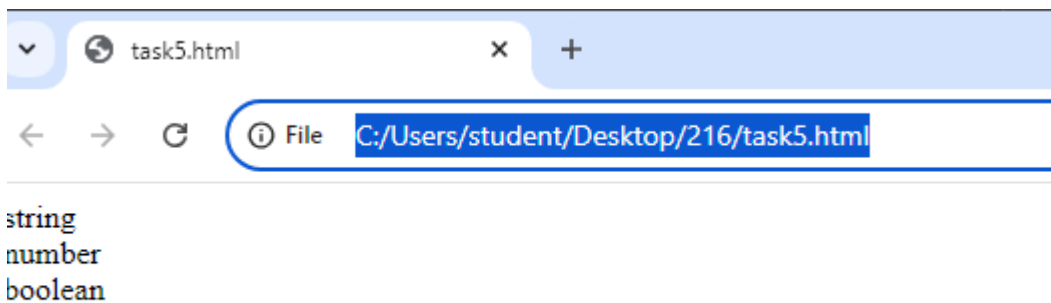
OUTPUT:



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");
```

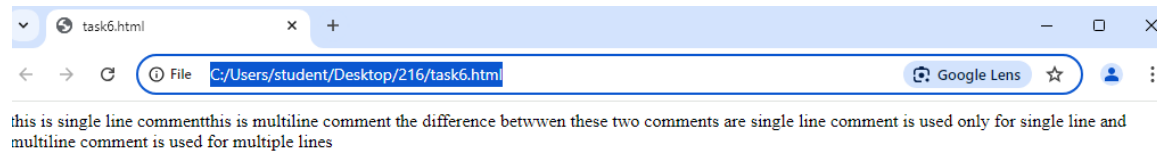
```
document.write(" the difference between these two comments are single line comment is used  
only for single line and multiline comment is used for multiple lines");
```

```
</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

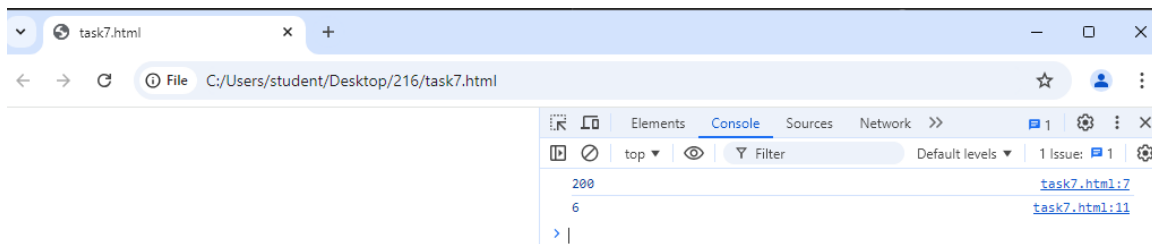
console.log(c*d)

</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)

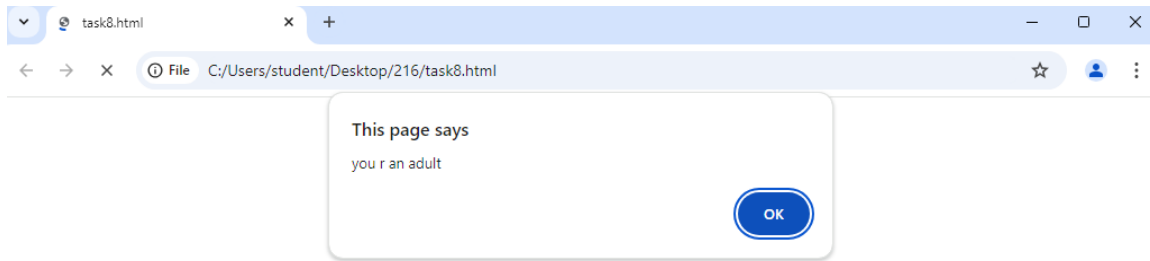
alert("you r an adult");


</script>

</body>

</html>
```

OUTPUT:



TASK 9:

```
<html>
```

```
  <body>
```

```
    <script>
```

```
      //multiple variables in single line
```

```
      let a,b,c;
```

```
      a=10;
```

```
      b=20;
```

```
      c=30;
```

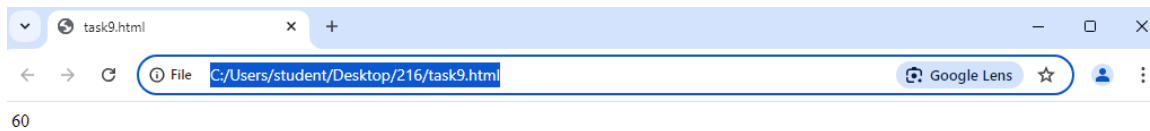
```
      document.write(a+b+c);
```

```
    </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

