```
TASK 51:
<html>
  <body>
    <script>
     let greet=(name)=>{
      document.write( "hello " + name);
     }
     greet("akshaya");
    </script>
  </body>
</html>
OUTPUT:
▼ 3 task51.html
               × +
← → ♂ (i) File C:/U
                                                                                  hello akshaya
TASK 52:
<html>
  <body>
    <script>
      let add=(a,b)=>{
        document.write(a+b);
      }
      add(5,7);
    </script>
  </body>
</html>
OUTPUT:
```

```
▼ S task52.html
   → C (i) File C
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:
▼ 3 task53.html
 ← → ♂ C:/Users/Student.DK-44/Desktop/216/task53.html
                                                                                         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:
▼ 🐧 task54.html
                                                                                      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:
▼ 🔞 task55.html
 \leftarrow \quad \Rightarrow \quad \textbf{C} \qquad \textcircled{0 File} \quad \text{C:/Users/Student.DK-44/Desktop/216/task55.html}
                                                                                     Inside traditional function, this: ▶ Object
50
                                                                                                                        task55.html:17
task55.html:12
                                                                                       Inside arrow function, this: ▶ Window
TASK 11:
<html>
   <body>
     <script>
        a=42;
        document.write(a);
     </script>
   </body>
</html>
OUTPUT:
▼ 🐧 task11.html
                    × +
← → ♂ (① File C:/U:
                                                                                                               TASK 12:
<html>
   <body>
```

```
<script>
      "use strict";
      a=42;
      document.write(a);
    </script>
  </body>
</html>
OUTPUT:
   PROBLEMS 8
                  OUTPUT
                           DEBUG CONSOLE
                                                              SEARCH ERROR
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:
 PROBLEMS (8) OUTPUT DEBUG CONSOLE TERMINAL PORTS SEARCH ERROR
  Uncaught SyntaxError SyntaxError: Delete of an unqualified identifier in strict mode. at (program) (c:\Users\Student.DK-44\Desktop\216\task13.html:10:8)
TASK 14:
<html>
  <body>
     <script>
       x=90;
       document.write(x+"<br>");
        "use strict";
       x=90;
       document.write(x);
     </script>
  </body>
</html>
OUTPUT:
```

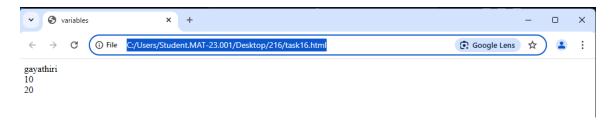
```
| Complete | Complete
```

```
PROBLEMS 8 OUTPUT DEBUG CONSOLE TERMINAL PORTS SEARCH ERROR Filter (e.g. text, !exclude, \escape)

Uncaught SyntaxError SyntaxError: Unexpected token 'class'

at (program) (c:\Users\Student.DK-44\Desktop\216\task15.html:5:17)
```

```
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>
```



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:
K [0
           Elements
                       Console
                                           Network >>
                                 Sources
                        ▼ Filter
                                                                    1 Issue: 📮 1
           top ▼ 🔘
                                                   Default levels ▼

    ▶ Uncaught TypeError: Assignment to constant variable.

       at task17.html:5:14
> |
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.

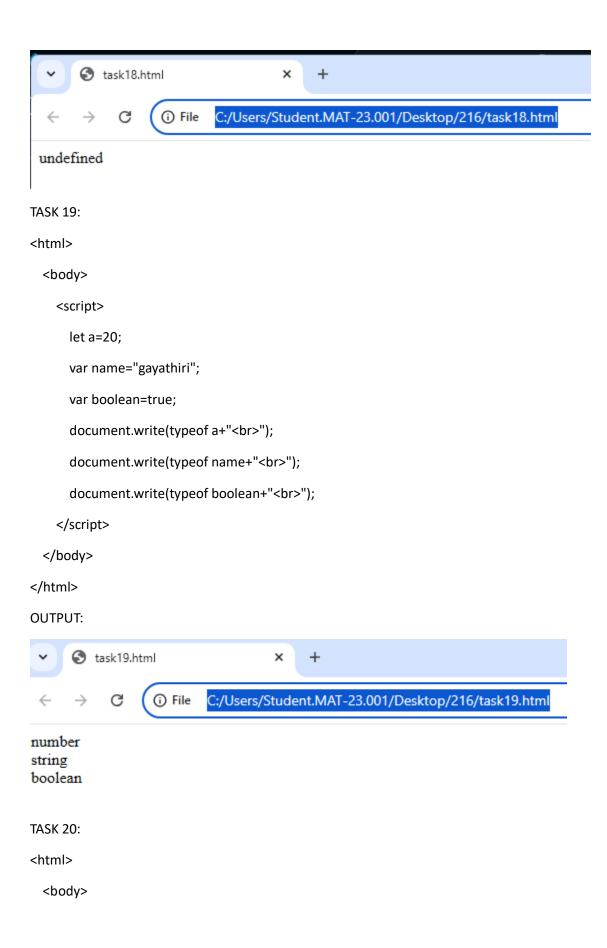
TASK 18:

```
</script>
```

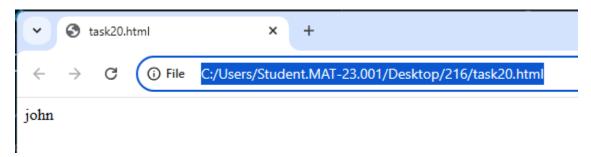
document.write(a);

</html>

</body>



```
<script>
var a="gayu";
var a="john";
document.write(a);
</script>
</body>
</html>
```



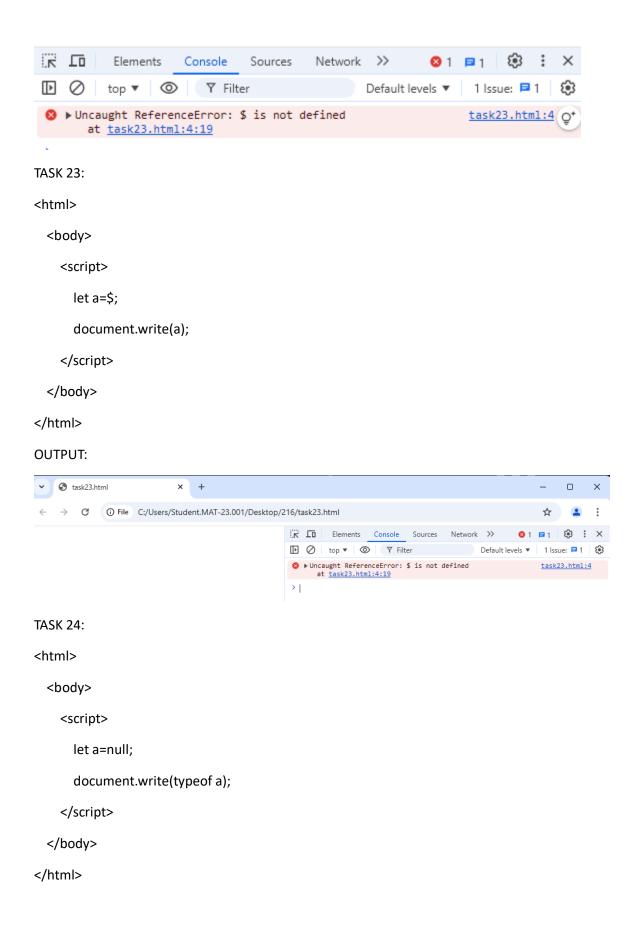
RESULT:

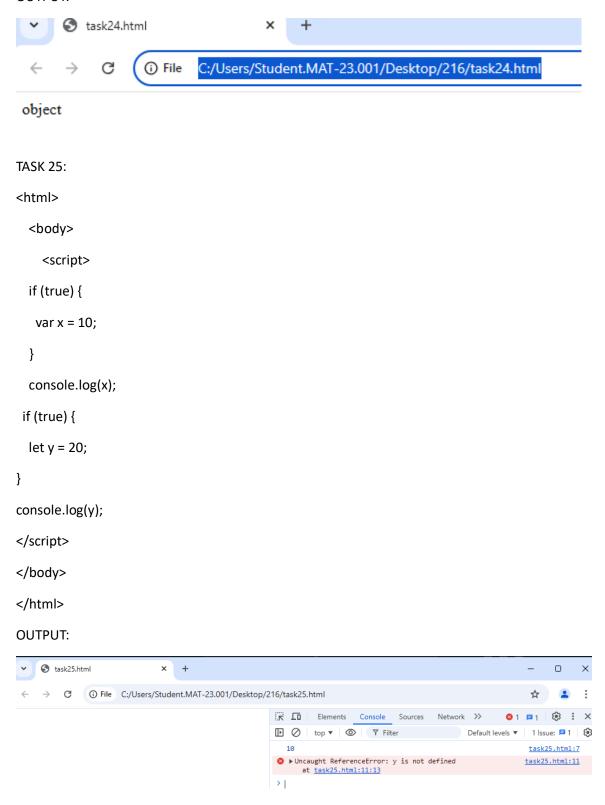
You can't literally rename the variable itself, but you can assign its value to a new variable with a different name. The original variable still exists unless you remove it or stop using it.

TASK 21:

```
<html>
<body>
<script>
var name="gayathiri";
let a=12;
let boolean=true;
let b=null;
let student={
name:"gayu",
dept:"CSE"
};
```

```
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 21.html
                                          +
                           C:/Users/Student.MAT-23.001/Desktop/216/task%2021.html
                   (i) File
 gayathiri
 12
 true
 null
 gayu
 CSE
TASK 22:
<html>
  <body>
    <script>
      let a=$;
      document.write(a);
    </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.

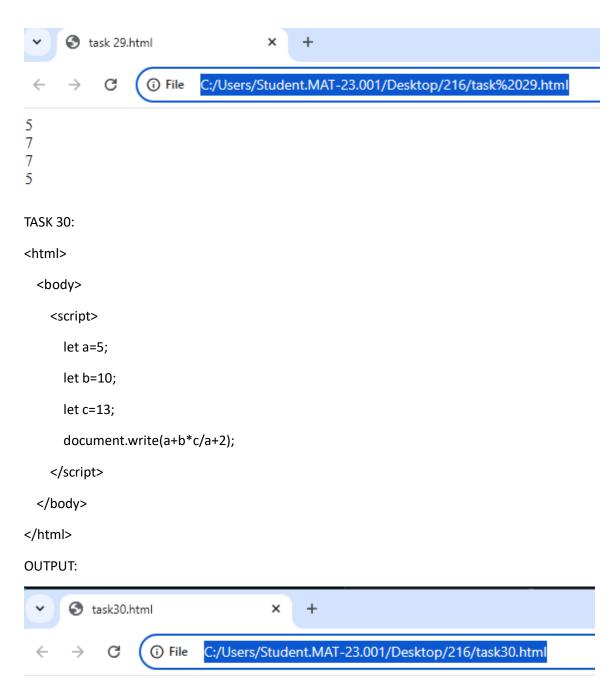
SCOPE OF let:Scope: Variables declared with var are function-scoped. This means that they are only accessible within the function they are declared in, or globally if declared outside any function.

```
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;
    3 task26.html
 ← → C ① File C:/Users/Student.MAT-23.001/Desktop/216/task26.html
                                             ĸ [
                                                    Elements Console Sources Network >>
                                             Default levels ▼
                                               42
                                                                                         task26.html:6
                                               42
                                                                                         task26.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:
           task27.html
                                             +
                             C:/Users/Student.MAT-23.001/Desktop/216/task27.html
                    (i) File
true
string
true
boolean
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>
```

```
task28.html
                                             +
                                       ×
                    (i) File
                            C:/Users/Student.MAT-23.001/Desktop/216/task28.html
 30
 -10
 200
 0.5
  10
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>
```



```
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>");

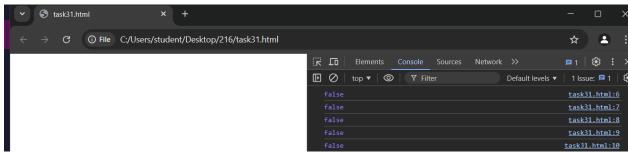
console.log(a<=b+"<br>");

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

</script>

</body>

</html>
```



```
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>
```

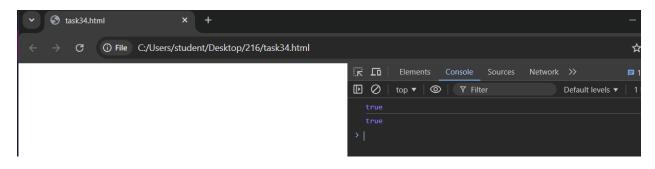


TASK 33:

```
<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:
    task33.html

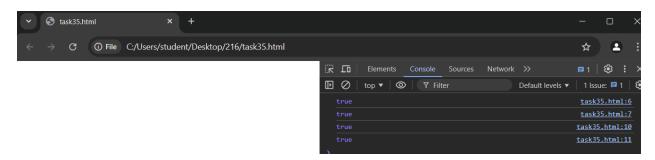
ightarrow C \odot File C:/Users/student/Desktop/216/task33.html
                                                          <u>K</u> [0
TASK 34:
<html>
  <body>
     <script>
       let a=30;
       let b=50;
       console.log(a!=b);
       console.log(a!==b);
     </script>
  </body>
</html>
```

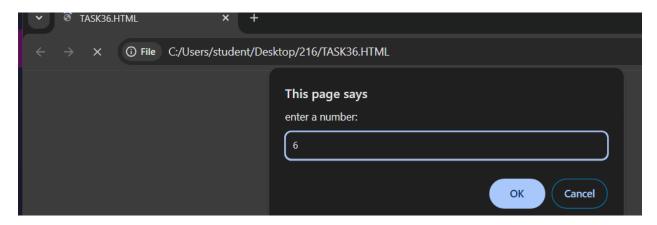


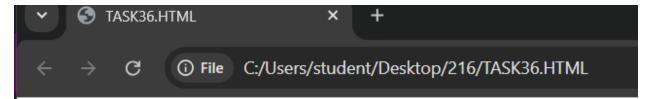
```
TASK 35:
```

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

</html>

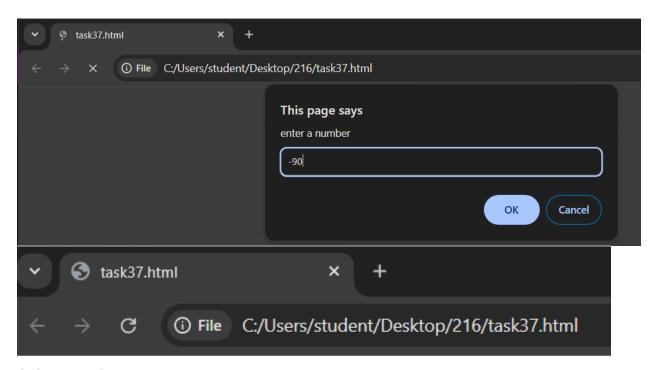






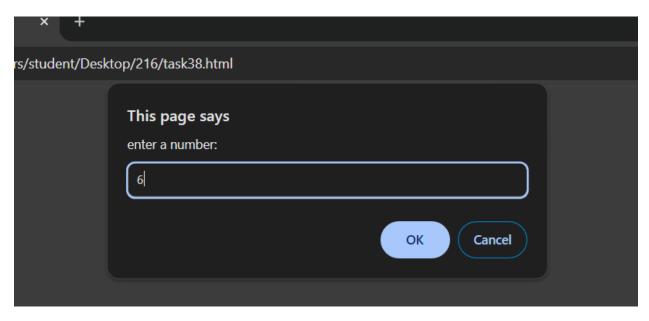
it is even number

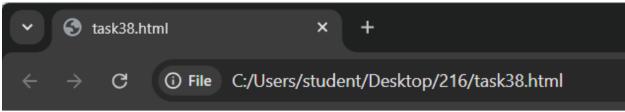
```
TASK 37:
<html>
  <body>
    <script>
      let a=prompt("enter a number");
      if(a==0)
    {
      document.write("it is zero");
    }
    if(a>0)
    {
      document.write("it is positive");
    }
    if(a<0)
    {
      document.write("it is negative");
    }
    </script>
  </body>
</html>
```



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>

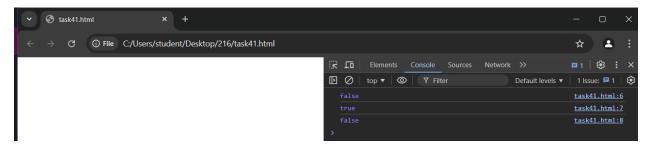
</html>
```

```
stask39.html
                    C:/Users/student/Desktop/216/task39.html
                                                                                            Google Lens
 true
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:
     stask40.html

    Google Lens 
    ☆

                   C:/Users/student/Desktop/216/task40.html
smallest
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>
```



TASK 42:

<html>

<body>

<script>

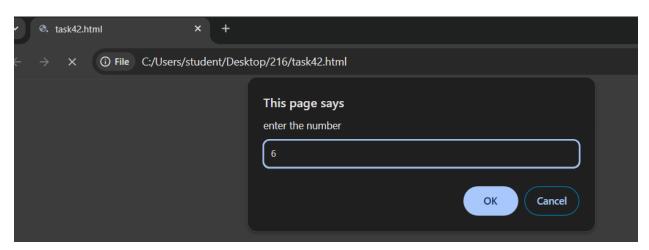
let a=prompt("enter the number");

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

</script>

</body>

</html>



```
stask42.html
             ① File C:/Users/student/Desktop/216/task42.html
it is not in range
TASK 43:
<html>
  <body>
     <script>
       let boolean=true;
       document.write(!boolean);
     </script>
  </body>
</html>
OUTPUT:
      task43.html
                    C:/Users/student/Desktop/216/task43.html
                                                                                           Google Lens
 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=5;

let b=20;

console.log(a||b);

console.log(a&&b);

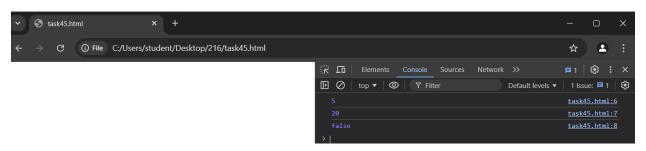
console.log(!b);

</script>

</body>

</html>

OUTPUT:



TASK 46:

<html>

```
<body>
<script>
function sum(a,b)
{
    document.write(a+b);
}
    sum(60,8);
</script>
</body>
</html>
OUTPUT:
```

```
</body>
</html>
OUTPUT:
      stask47.html

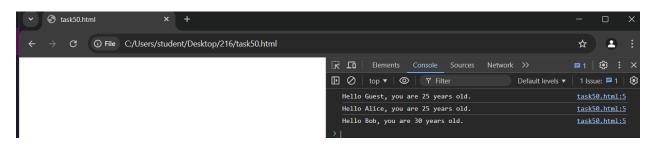
    Google Lens 
    ☆

              (i) File C:/Users/student/Desktop/216/task47.html
TASK 48:
<html>
  <body>
     <script>
       function call()
       {
          document.write("this is gayathiri");
       }
       call();
     </script>
  </body>
</html>
OUTPUT:
      stask48.html
                     C:/Users/student/Desktop/216/task48.html
                                                                                                 Google Lens
this is gavathiri
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>



```
TASK 1:
<!DOCTYPE html>
<head>
 <title>introduction to javascript</title>
</head>
<body>
 <script>
   alert("Hello world");
 </script>
 </body>
 </html>
OUTPUT:
introduction to javascript
   This page says
                           Hello world
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:
🗸 🗿 js
                                                                                          → C  i File C:/Users/student/Desktop/216/task2.html
                                             Default levels ▼
                                               John
                                                                                      task2.html:10
                                                                                      task2.html:12
                                               true
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:

▼ introduction

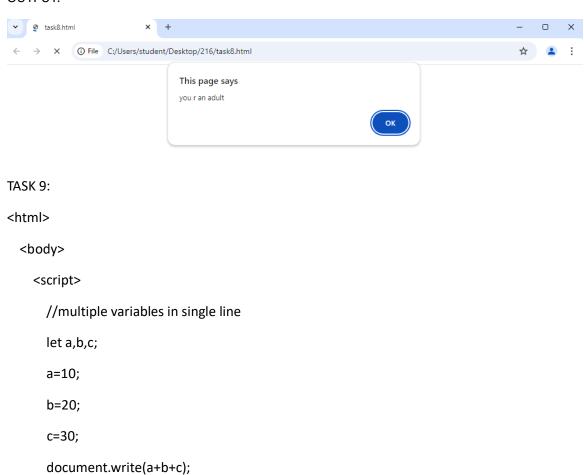
                                                                                ← → ♂ G File C:/Users/student/Desktop/216/task3.html
                                        Default levels ▼
                                                                            task3.html:11
                                         -10
                                                                            task3.html:12
                                         200
                                                                            task3.html:13
                                         0.5
                                                                            task3.html:14
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:
```



string number boolean

```
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:
    3 task6.html
                                                                                   Google Lens
this is single line commentthis is multiline comment the difference between these two comments are single line comment is used only for single line and
multiline comment is used for multiple lines
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:
✓ ③ task7.html
 ← → ♂ G File C:/Users/student/Desktop/216/task7.html
                                                  \overline{\mathbb{R}} \square | Elements Console Sources Network >>
                                                  top ▼ 💿 🍸 Filter
                                                                                    Default levels ▼
                                                    200
                                                                                                task7.html:11
                                                  > |
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>
```

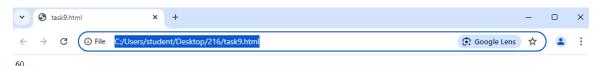


</script>

</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
     3 task10.html
                                                                                                       (i) File C:/Users/student/Desktop/216/task10.html
         C
                                                                                     Google Lens
script tag at the top
script tag at the bottom
```