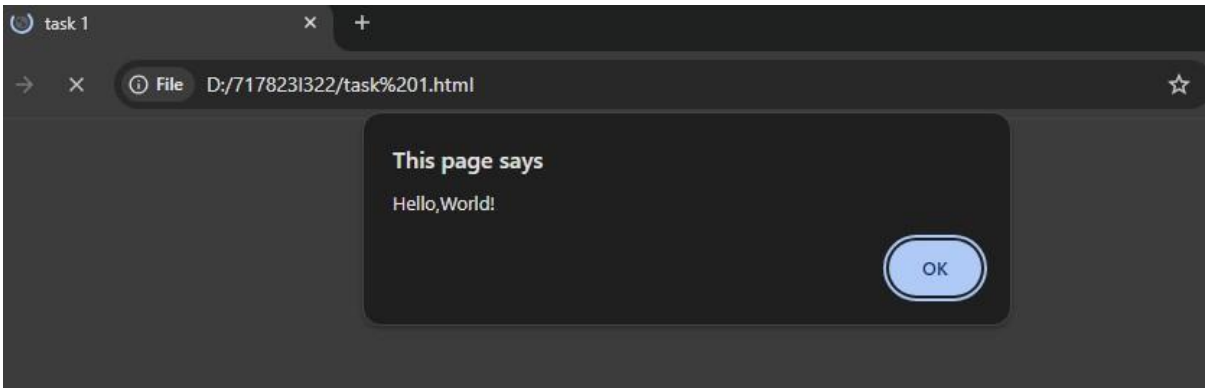
TASK 1

```
<!DOCTYPE html>
<head>
<title>task 1</title>
</head>
<body>
    <script>
     alert("Hello,World!");
    </script>
</body>
```

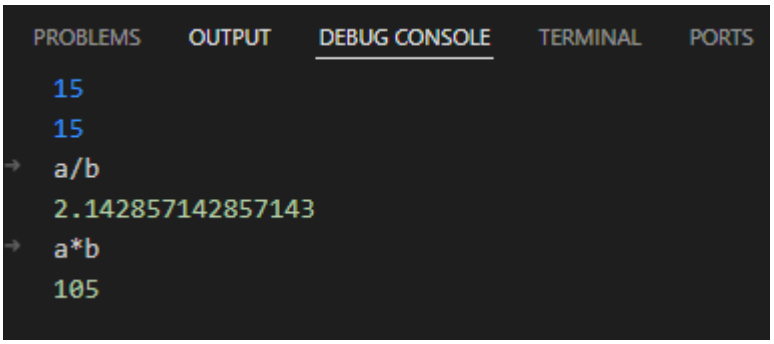



TASK 2

```
<!DOCTYPE html>
<head>
    <title>task 2</title>
</head>
<body>
    <script>
        const name="kamali";
        let no=7;
        let valid=true;
        console.log(name);
        console.log(no);
        console.log(valid);
    </script>
</body>
</html>
```

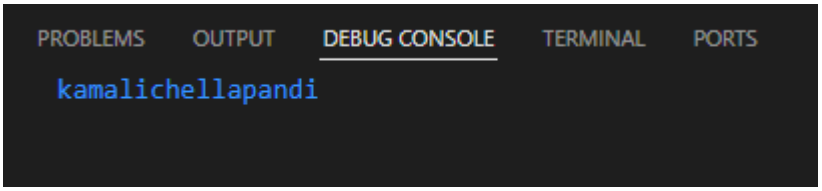

TASK 3

```
<!DOCTYPE html>
<head>
    <title>task 3</title>
</head>
<body>
    <script>
        var a=15;
        var b=7;
        console.log(5+10);
        console.log(17-2);
        </script>
 </body>
```



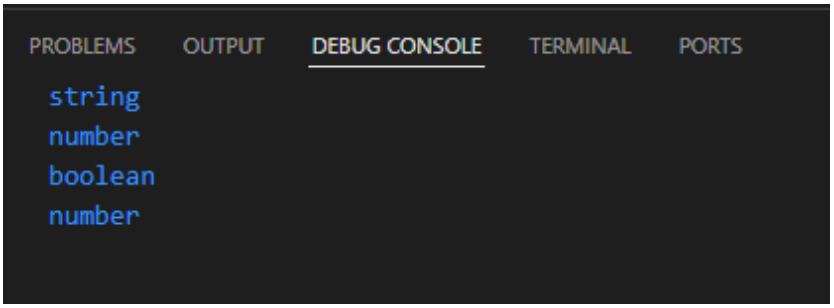
TASK 4

```
<!DOCTYPE html>
<head>
    <title>task 4</title>
</head>
<body>
    <script>
        let firstname='kamali';
        let lastname='chellapandi';
        console.log(firstname+lastname);
        </script>
        </body>
        </html>
```



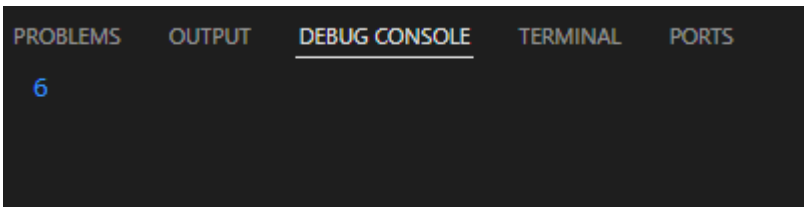

TASK 5

```
<!DOCTYPE html>
<head>
    <title>task 5</title>
</head>
<body>
    <script>
        console.log(typeof 'hello');
        let a=5;
        console.log(typeof a);
        var b=true;
        let c=9;
        console.log(typeof b);
        console.log(typeof c);
        </script>
</body>
</html>
```



TASK 6

```
<!DOCTYPE html>
<head>
    <title>task 6</title>
</head>
<body>
    <!-- <p>the below variable a is in single line command</p>
    <p>Both the paragraph tag is in multi line command</p>*/-->

    <script>
      // let a=5;
        var b=6;
        console.log(b);

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



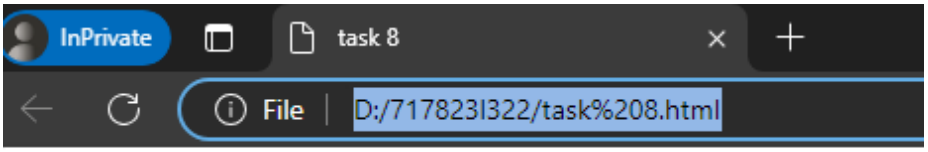

TASK 7

```
<!DOCTYPE html>
<head>
    <title>task 7</title>
</head>
<body>
    <script>
        var a=5;
        var b=9;
        var c=a+b;
        console.log(c);
        var a=5
        var b=5
        var c=a+b
        console.log(c)
    </script>
</body>
</html>
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
14
10
```

TASK 8

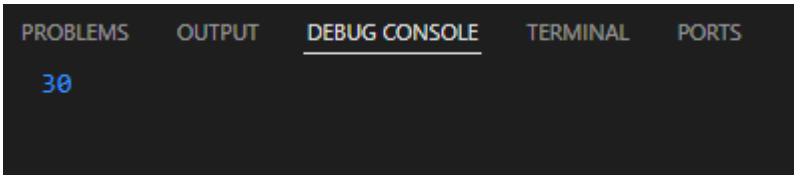
```
<!DOCTYPE html>
<head>
    <title>task 8</title>
</head>
    <body>
        <script>
            let a=5;
            for(let i=0;i<a;i++)
        {
            for(let j=i+1;j<a;j++){
               document.writeln(i+j);
            }
                }
        </script>
     </body>
</html>
```




1 2 3 4 3 4 5 5 6 7

## TASK 9

```
<!DOCTYPE html>
<head>
    <title>task 9</title>
</head>
<body>
<script>
    let a=5,b=10,c=15;
    console.log(a+b+c);
    </script>
</body>
</html>
```

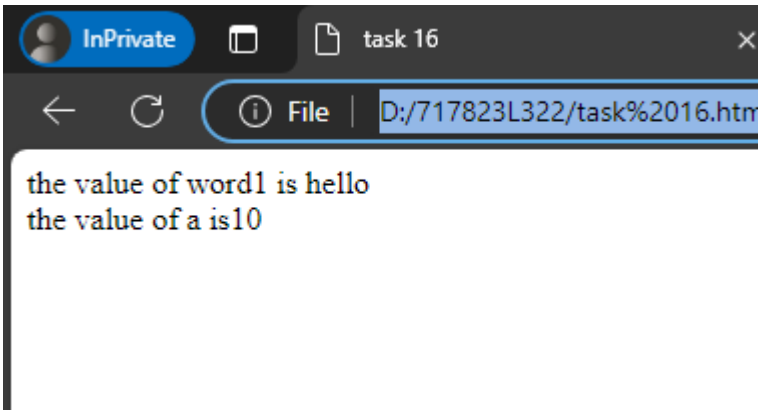


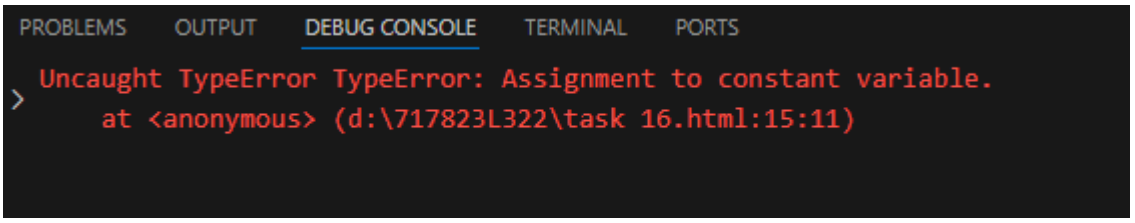

## TASK 10

```
<!DOCTYPE html>
<head>
   <script>
      let a="hello";
      let b="kce";
      document.writeln(a+b);
      </script>
</head>
<body>
   <script>
      let customer={
         name:"kamali",
         age:18,

      }
      document.writeln(customer.name);
      document.writeln(customer.age);
   </script>
</body>
```

## TASK 16

```
<!DOCTYPE html>
<head>
   <title>task 16</title>
</head>
<body>
   <script>
      var word1="hi";
      var word1="hello";
      document.writeln('the value of word1 is '+word1 +"<br>");

      let a=5;
       a=10;
      document.writeln('the value of a is'+a);
      const pi=3.14;
      pi=13;
      document.writeln(pi);

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



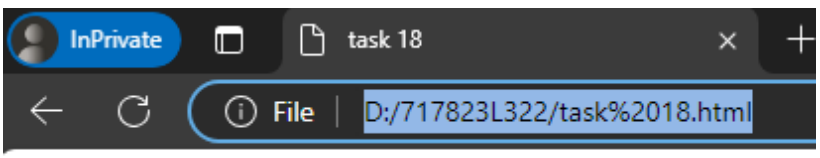
TASK 17

```
<!DOCTYPE html>
<head>
   <title>task 17</title>
</head>
<body>
   <script>
        const pi=3.14;
      pi=13;
      document.writeln(pi);
      </script>
</body>
</html>
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS
> Uncaught TypeError TypeError: Assignment to constant variable.
      at <anonymous> (d:\717823L322\task 16.html:15:11)
```

TASK 18

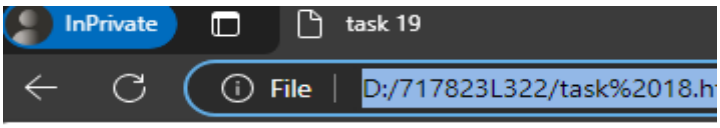
```
<!DOCTYPE html>
<head>
   <title>task 18</title>
</head>
<body>
   <script>

      let a;
      document.writeln('the value of a is '+a);
      </script>
</body>
</html>
```




the value of a is undefined

TASK 19

```
<!DOCTYPE html>
<head>
   <title>task 19</title>
</head>
<body>
   <script>
      document.writeln(typeof 'hello'+"<br>");
      let a=5;
      document.writeln(typeof a+"<br>");
      var b=true;
      let c=9;
      document.writeln (typeof b+"<br>");
      document.writeln(typeof c);
      </script>
</body>
</html>
```




string
number
boolean
number

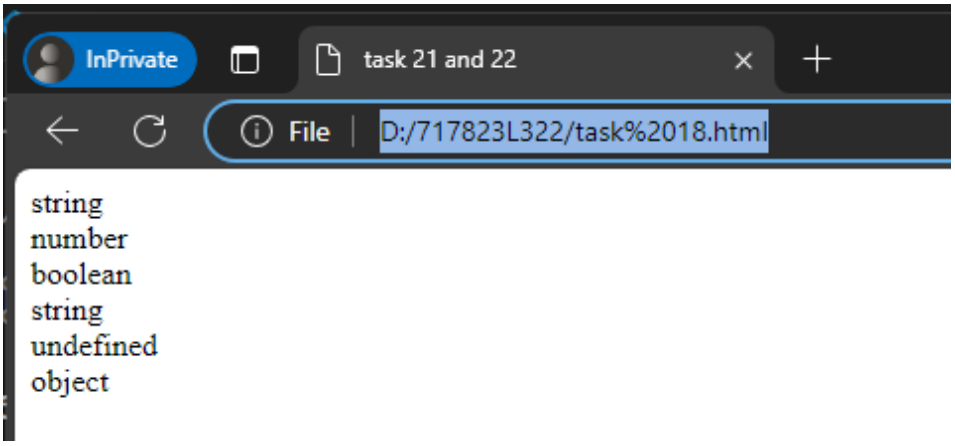
Task 20

```
<!DOCTYPE html>
<head>
   <title>task 20</title>
</head>
<body>
   <script>
   let oldname="pushpa";

      newname=oldname;
      oldname="";

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

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

pushpa
```

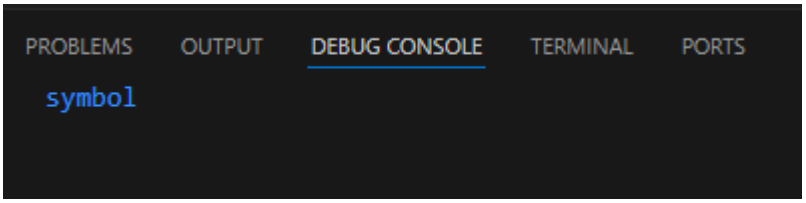
TASK 21 & 22

```
<!DOCTYPE html>
<head>
  <title>task 21 and 22</title>
</head>
<body>
  <script>
      document.writeln(typeof 'hello'+"<br>");
      let a=5;
      var b=true;
     let  d="";
     var e;
      let customer={
         name:"kamali",
         age:18,
      }
      document.writeln(typeof a+"<br>");
      document.writeln (typeof b+"<br>");
      document.writeln(typeof  d+"<br>");
      document.writeln(typeof  e+"<br>");
      document.writeln(typeof   customer);
      </script>
</body>
</html>
```



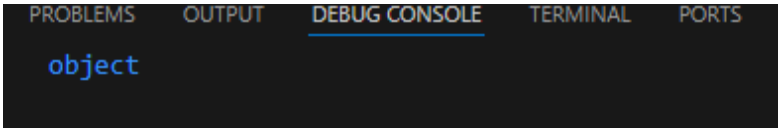
TASK 23

```
<!DOCTYPE html>
<head>
   <title>task 23</title>
</head>
<body>
   <script>
      const a=Symbol("%");
      console.log(typeof a);
            </script>
</body>
</html>
```



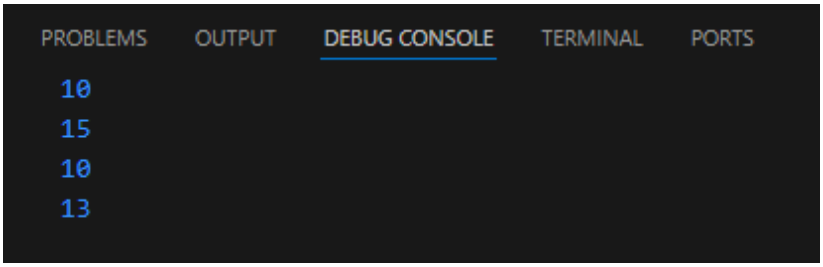

TASK 24

```
<!DOCTYPE html>
<head>
   <title>task 24</title>
</head>
<body>
   <script>
      let num1=null;
      console.log(typeof num1);
      </script>
</body>
</html>
```



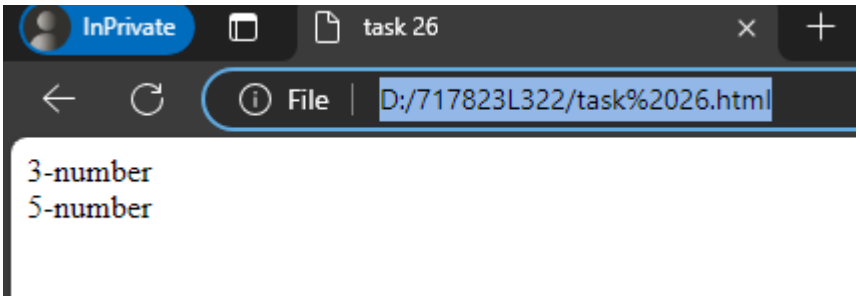
TASK 25

```
<!DOCTYPE html>
<head>
<title>task 25</title>
</head>
<body>
<script>
function makeuser(){
var a=7;//var is function scoped
let b=13;//let is block scoped
if(a<b){
var a=10; let b=15;
console.log(a); console.log(b);
}
else{
var a=a++; let b=b++;
console.log(a); console.log(b);
}
console.log(a); console.log(b);
}
makeuser();
</script>
</body>
</html>
```



task 26

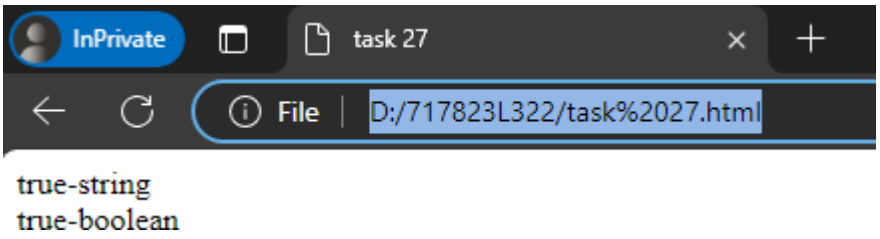
```
<!DOCTYPE html>
<head>
    <title>task 26</title>
</head>
<body>
<script>

    //implicit
    let result="5"-2;
    document.writeln(result ,"-",typeof
result,"<br>");
    //explicit
    let x=Number("5");
    document.writeln(x,"-",typeof x);
    </script>
    </body>
    </html>
```



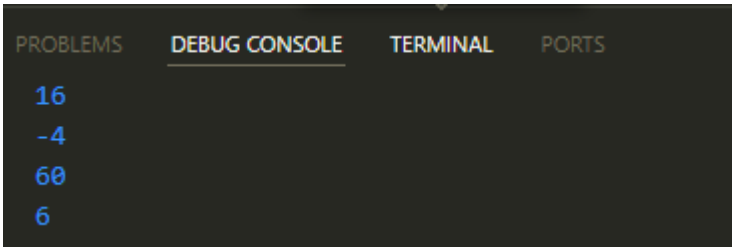

task 27

```
<!DOCTYPE html>
<head>
    <title>task 27</title>
</head>
<body>
<script>
    let x=String(true);
    document.writeln(x,"-",typeof x,"<br>");
```

```
    let y=Boolean("ami");
    document.writeln(y,"-",typeof y);
    </script>
    </body>
    </html>
```

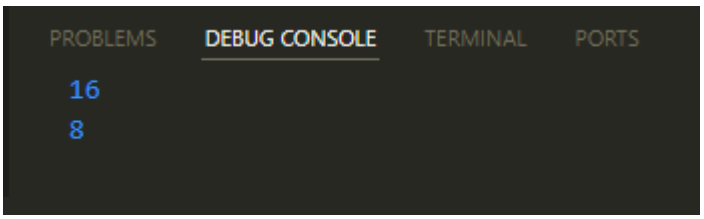



```
<!DOCTYPE html>
<head>
    <title>task 28</title>
</head>
<body>
<script>
    let a=6,b=10;
    console.log(a+b);
    console.log(a-b);
    console.log(a*b);
    console.log(a%b);
    </script>
    </body>
    </html>
```



task 29

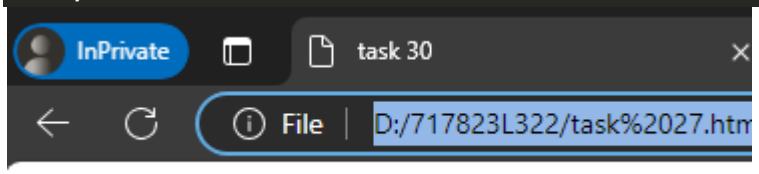
```
<!DOCTYPE html>
<head>
    <title>task 29</title>
</head>
<body>
<script>
    let a=7;
    let b=a++ + ++a;
    console.log(b);
    let x=5;
    let y=x-- + --x;
    console.log(y);
    </script>
    </body>
    </html>
```




task 30

```
<!DOCTYPE html>
<head>
    <title>task 30</title>
</head>
<body>
<script>
    let a=4,b=10;
    let result=a*b%(a+b)*a-b;
    document.writeln(result);
</script>
  </body>
```

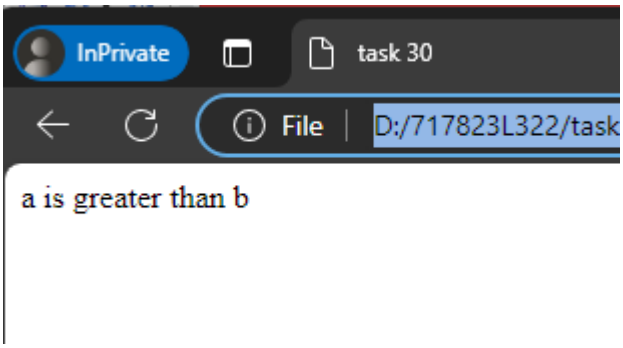
```
  </html>
```




38

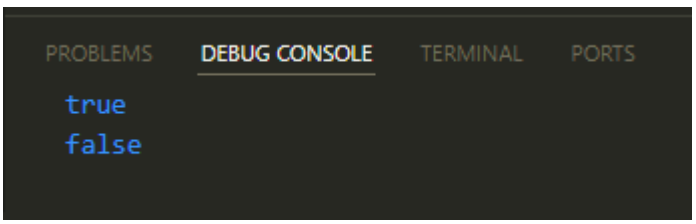
Task 31

```
<!DOCTYPE html>
<body>
<script>
    let a=10,b=4;
    if(a<b){
        document.writeln("a is lesser than b");
    }
    else if(a>b){
        document.writeln("a is greater than b");
    }
    else{
        let x=5,y=5;
        if(x<=y){
            document.writeln(x+y);
        }
        else if(x>=y){
            document.writeln(x-y);
        }
        else{
            document.writeln("invalid values");
        }
    }
</script>
  </body>
  </html>
```




task 32

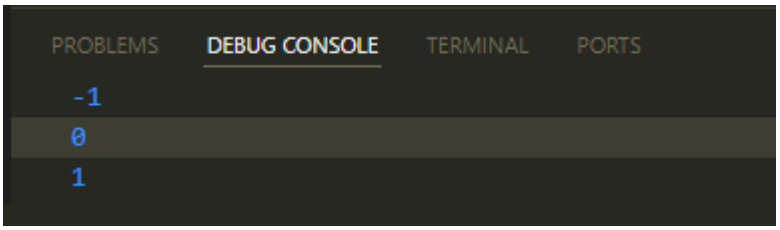
```
<!DOCTYPE html>
<head>
    <title>task 32</title>
</head>
<body>
<script>

    let a="10";
   let b=10;
   console.log(a==b);//it checks the value only
   console.log(a===b);//it check both the value and
datatype
    </script>
    </body>
    </html>
```




task 33

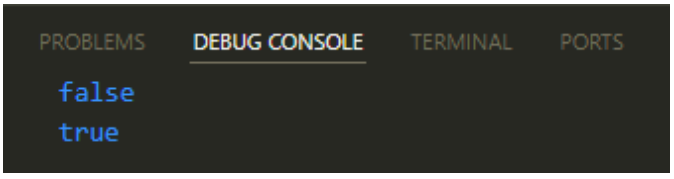
```
<!DOCTYPE html>
<head>
    <title>task 33</title>
</head>
```

```
<body>
<script>
function comparestr(str1,str2){
    return str1.localeCompare(str2);
}
console.log(comparestr("apple","banana"));
console.log(comparestr("apple","apple"));
console.log(comparestr("banaba","apple"));
    </script>
    </body>
    </html>
```

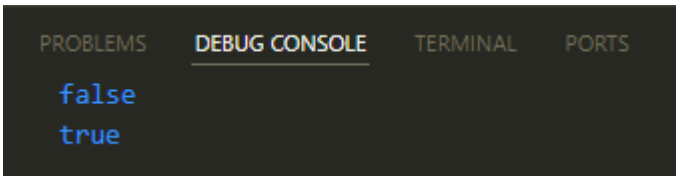



task 34

```
<!DOCTYPE html>
<head>
    <title>task 34</title>
</head>
<body>
<script>
    let a=10,b="10";
    console.log(a!=b);
    console.log(a!==b);
</script>
  </body>
  </html>
```

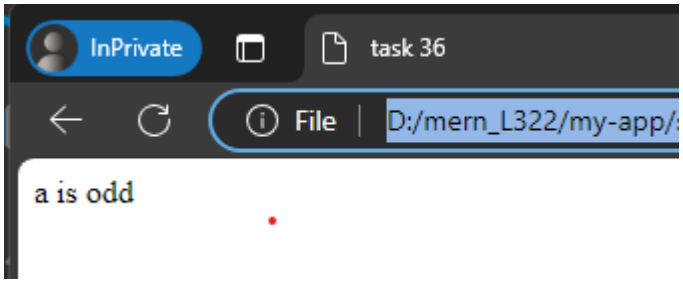


```
                        task 35
<!DOCTYPE html>
<head>
    <title>task 35</title>
</head>
<body>
<script>
    let a;
    let b=null;
    console.log(a==b);
    console.log(a===b);
   </script>
  </body>
  </html>
```

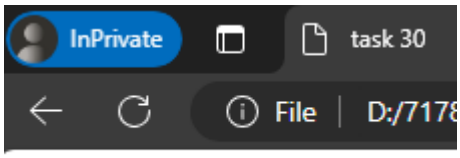


Task 36

```html
<!DOCTYPE html>
<head>
<title>task 36</title>
</head>
<body>
<script>
let a=7; if(a%2==0){
document.writeln("a is even");
}
else{
    document.writeln("a is odd");
}
</script>
</body>
</html>
```



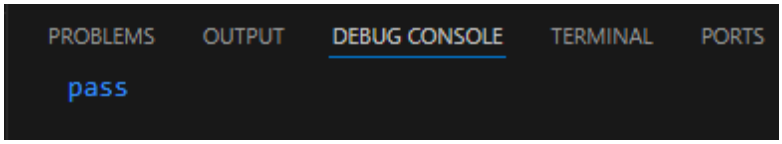
```
                        task 37
<!DOCTYPE html>
<head>
    <title>task 37</title>
</head>
<body>
<script>
   let a=parseInt(prompt("enter a value:"));//a=7
   if(typeof a=="number"){
    if(a>0){
    document.writeln("a is positive");
   }
   else if(a<0){
    document.writeln("a is negative");
   }
   else
   document.writeln("a is zero");
   }
   </script>
  </body>
  </html>
```




a is positive

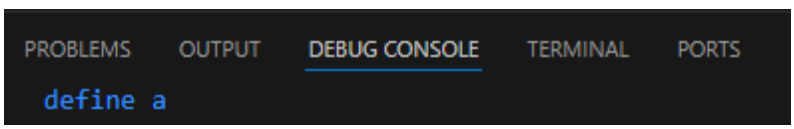
Task 38

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=<device-width>, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let a=prompt("enter the value of a:",0);//a=70
     let res=(a>50)?"pass":"fail";
     console.log(res);
    </script>

</body>
</html>
```



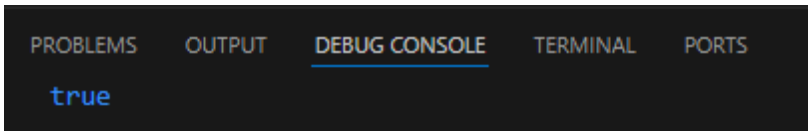

Task 39

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let a;
        let res=(typeof a=="undefined")?"define a":(typeof a=="object")?"a is
null":"a is valid";
        console.log(res);
    </script>

</body>
</html>
```



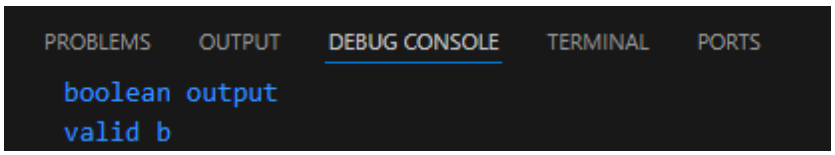
TASK 40

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let a="hello";
        let res=(typeof a=="string")?"true":"false";
        console.log(res);
    </script>

</body>
</html>
```



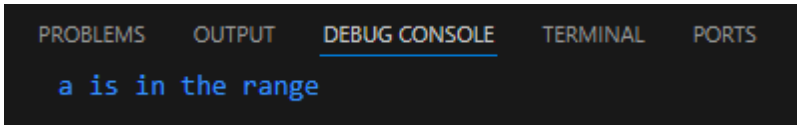

TASK 41

```html
<script>
        let a=5,b=7,c=4;
       let d=false;
       if(!d){
        console.log("boolean output");
       }
       if(a>b&&a>c){
        console.log("a is greater");
       }
       if((b+c)==11||(b+a)==12){
        console.log("valid b");
       }
    </script>
```



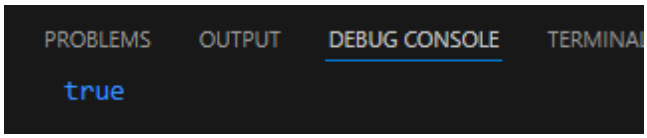
TASK 42

```
<script>
       let a=10;
     if(a>0&&a<10||a===10){
       console.log("a is in the range");
     }
     else{
       console.log("a is not in the range");
     }
   </script>
```



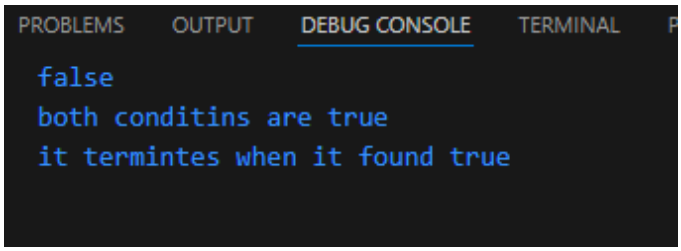

TASK 43

```
<script>
       let a=false;
       console.log(!a);
   </script>
```



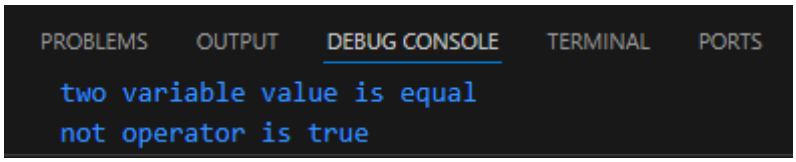

TASK 44

```
<script>
       let a=true&&false;
       console.log(a);
       let x=5,y=10;
       let res=(x%2!=0&&y%2==0)&&"both conditins are true";
       console.log(res);
       if(x==5||y==1){
           console.log("it termintes when it found true");
       }

   </script>
```



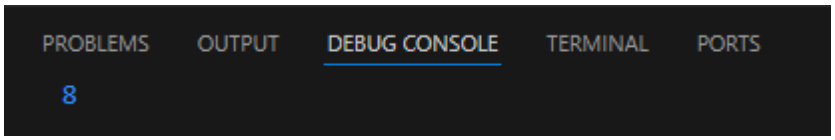
TASK 45

```
<script>
        let a=5;
        let b="string";
        let c=5;
        if((a>b)&&(a%2!=0)){
            console.log("a is greater and odd");
        }
        if(a==b||a==c){
            console.log("two variable value is equal");
        }
        let x=false,y=false;
          if(!x==!y) {
            console.log("not operator is true");
          }


    </script>
```



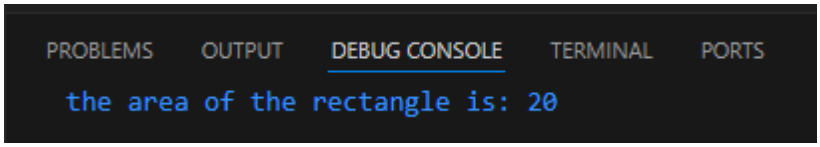

TASK 46

```
<script>
        function add(num1,num2){
            return num1+num2;
        }
     console.log(add(5,3));
    </script>
```



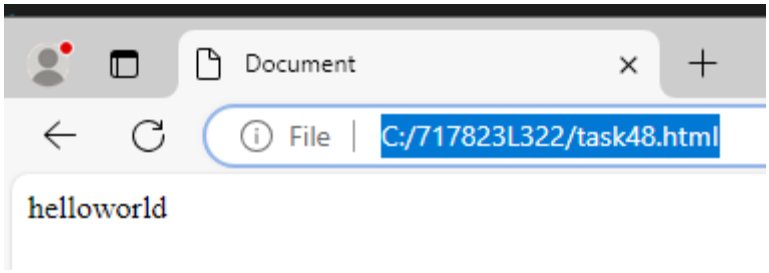

TASK 47

```
<script>
        function calculate(l,b){
            return l*b
        }
        console.log("the area of the rectangle is:",calculate(5,4));
    </script>
```



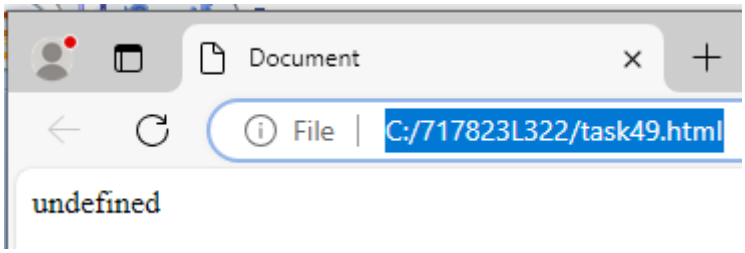
TASK 48

```
<script>
        function add(){
            let a="hello",b="world";
            return a+b;
        }
        document.write(add());
    </script>
```



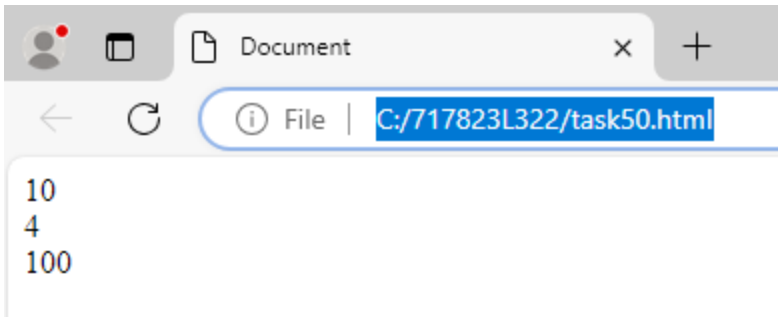

TASK 49

```
<script>
        function add(){
            let a="hello",b="world";

        }
        document.write(add());
    </script>
```



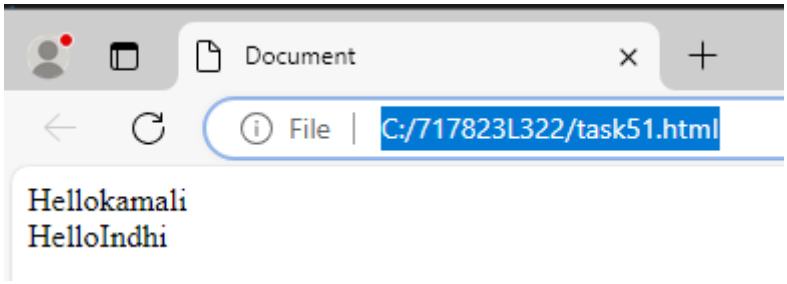

TASK 50

```
<script>
        function add(a=5,b=2){
            return a*b;
        }
        document.write(add(),"<br>");
        document.write(add(2),"<br>");
        document.write(add(10,10));
    </script>
```



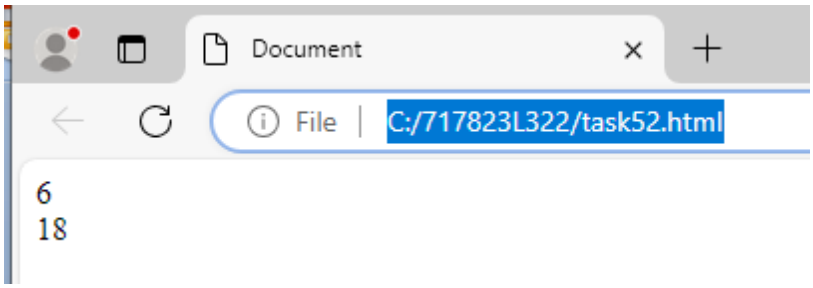
TASK 51

```
<script>
        let greet=(name)=>{
           return "Hello"+name;
        }
        document.write(greet("kamali"));
        document.write(greet("Indhi"));
    </script>
```



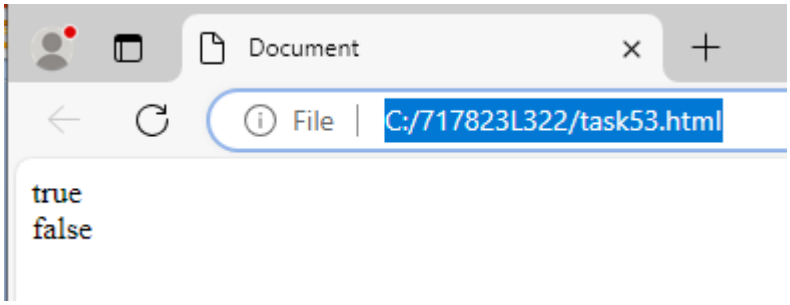

TASK 52

```
<script>
    let add=(num1,num2)=>{
        return num1+num2;
     }
     document.write(add(2,4),"<br>");
     document.write(add(10,8));
    </script>
```



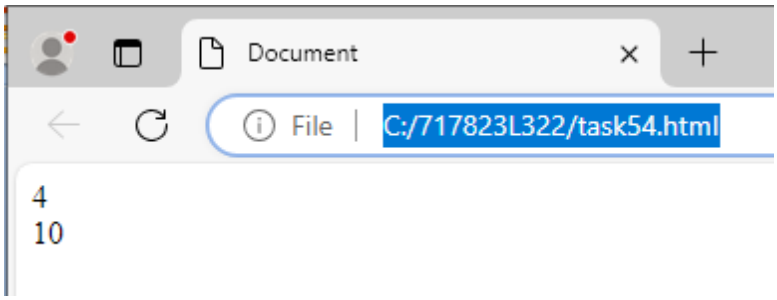

TASK 53

```
<script>
       let iseven=(num1)=>{
           let res=(num1%2==0)?true:false;
           return res;
       }

        document.write(iseven(4),"<br>");
        document.write(iseven(11));
       </script>
```




TASK 54

```
<script>
    let maxvalue=(num1,num2)=>{
       if(num1>num2){
       return num1;
       }
       else{
           return num2;
       }
}
   document.write(maxvalue(2,4),"<br>");
   document.write(maxvalue(10,8));
</script>
```




TASK 55

```
<script>
const myObject = {
  value: 10,


  multiplyTraditional: function(factor) {
    console.log('Inside traditional function: ', this);
    return this.value * factor;
  },


  multiplyArrow: (factor) => {
    console.log('Inside arrow function: ', this);
    return this.value * factor;
  }
};
```

```
console.log(myObject.multiplyTraditional(5));
console.log(myObject.multiplyArrow(5));
</script>
```