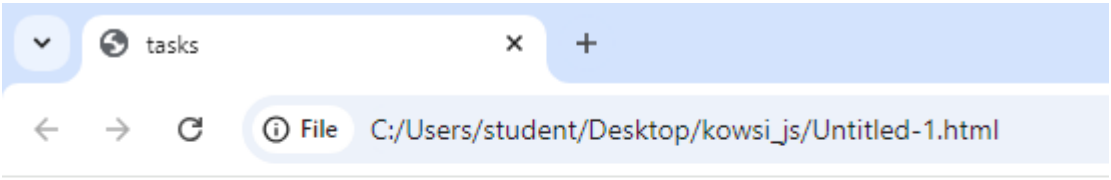
Advance java

task 1:

```
<html>
<head>
	<title>tasks</title>
</head>
<body>
	<script>
	  function fact(num){
		if(num==0){
			return 1;
		}
		else{
			return num*fact(num-1);
		}
		}
		let res=fact(parseInt(prompt("enter n:")));
		document.writeln(res);
		</script>
		</body>
		</html>
```

output:



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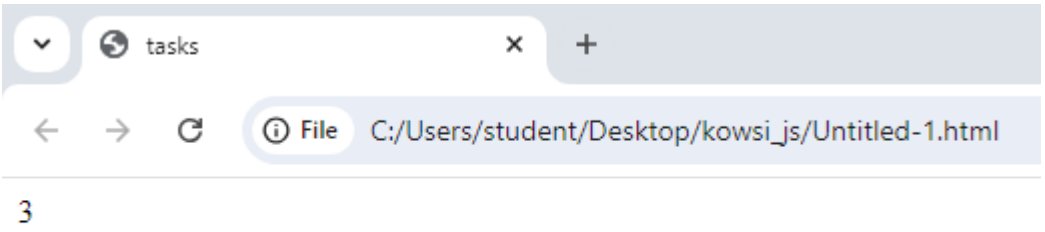
task 2:

```
<head>
    <title>tasks</title>
</head>
<body>
    <script>
     function fib(n){
        if(n<=1){
            return n;
        }
        else{
            return fib(n-1)+fib(n-2);
        }

     }
        const n=parseInt(prompt("enter n:"));
        let res=fib(n-1);
        document.writeln(res);
        </script>
        </body>
        </html>
```

output:

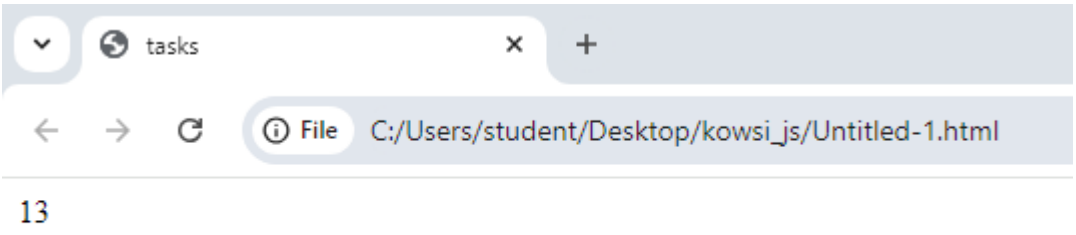


task 3:

```
<html>
<head>
    <title>tasks</title>
</head>
<body>
    <script>
      function climb(n){
        if(n==0){
            return 1;
        }
        if(n<1){
            return 0;
        }
        else{
            return climb(n-1)+climb(n-2)+climb(n-3);
        }

      }
```

```
let res= climb(parseInt(prompt("enter n:")));
document.writeln(res);

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

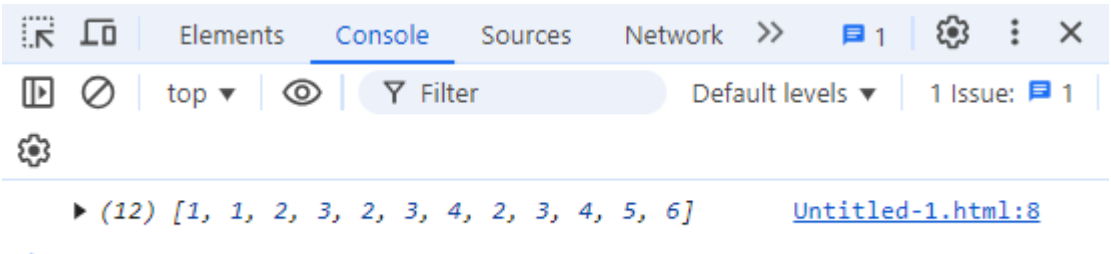
output:



task 4:

```
<html>
    <head>
        <title>tasks</title>
    </head>
    <body>
        <script>
          let arr=[1,[1,2,3],[2,3,4],2,3,[4,5,6]];
          console.log(arr.flat());

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

output:

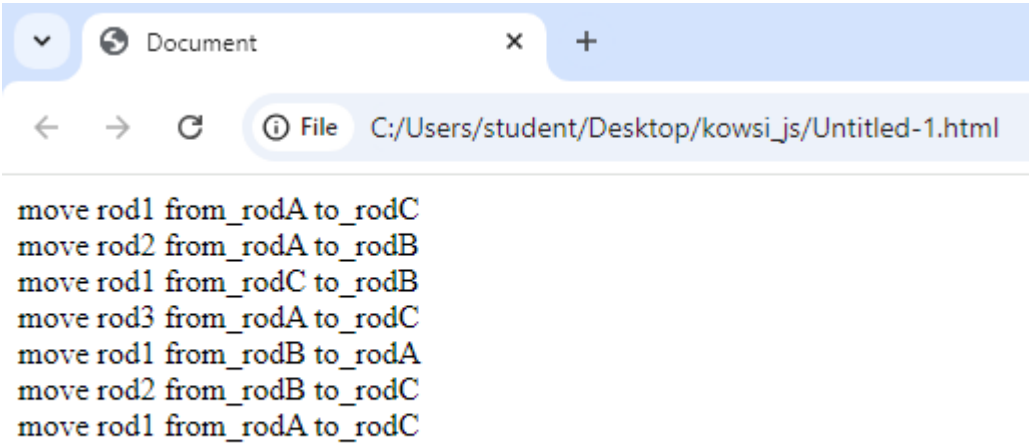


task 5:

```
<!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>
        function toh(n,from_rod,to_rod,des){
            if(n==0){
                return;
            }
            else
            toh(n-1,from_rod,des,to_rod);
        document.writeln("move rod"+n+" "+"from_rod"+from_rod+" "+"to_rod"+to_rod+"<br>");


        toh(n-1,des,to_rod,from_rod);
    }
    var N=parseInt(prompt("enter n"));
    toh(N,'A','C','B');
```

```
    </script>


</body>

</html>
```

output:

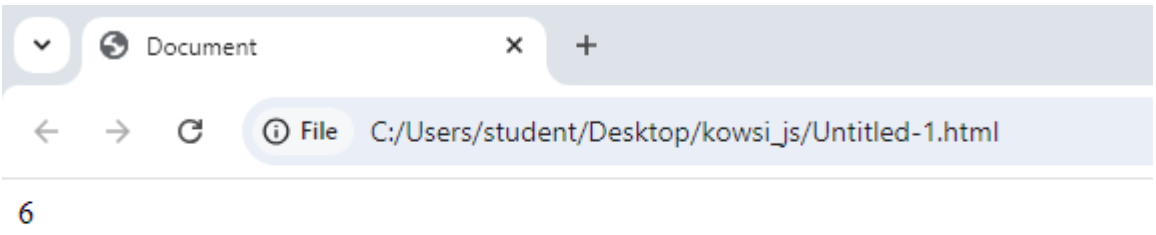


task 6:

```
<!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>

        function sum(a) {

        var s = 0;

        for (var i=0; i < arguments.length; i++) {

                s += arguments[i];
```

```
        }
        return s;
}
        let x = sum(3,2,1);
            document.writeln(x);
    </script>

</body>
</html>
```

output:

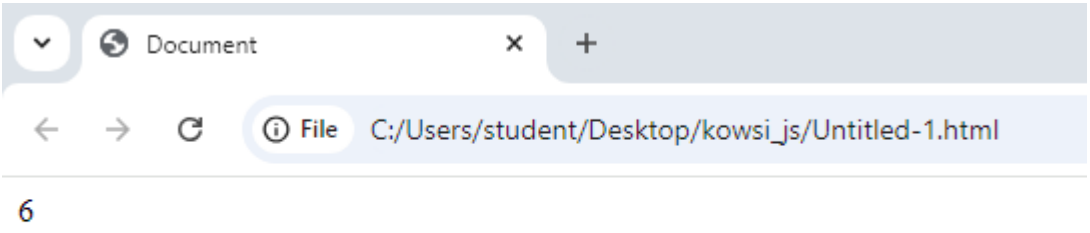


task 7:

```
<!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>
        function fun(...args){
            let sum=0;
```

```
        for(let i=0;i<arr.length;i++)
            {sum += arr[i];}
            return sum;


    }
    let arr=[3,2,1]
    let x = fun(arr);
        document.writeln(x);
</script>

</body>
</html>
```

output:

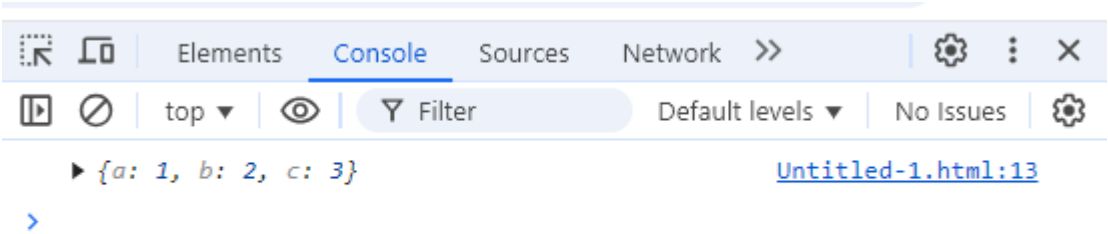


task 8:

```
<!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 obj={a:1,b:2,c:3};
      let cloneobj={};
      cloneobj= JSON.parse(JSON.stringify(obj));
      console.log(cloneobj);
    </script>

</body>
</html>
```

output:

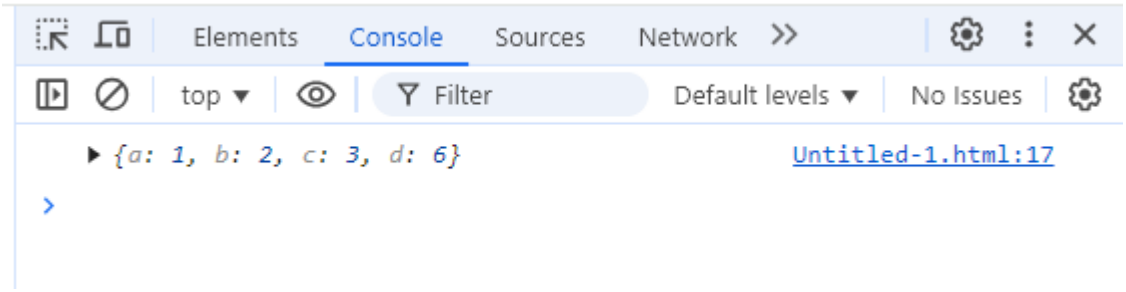


task 9:

```
<!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>
      function x(){
        let o1={a:1,b:2};
```

```
        let o2={c:3,d:6};
        let o={...o1,...o2};
        return o;
      }
let ans=x();
console.log(ans);
    </script>
</body>
</html>
```

output:

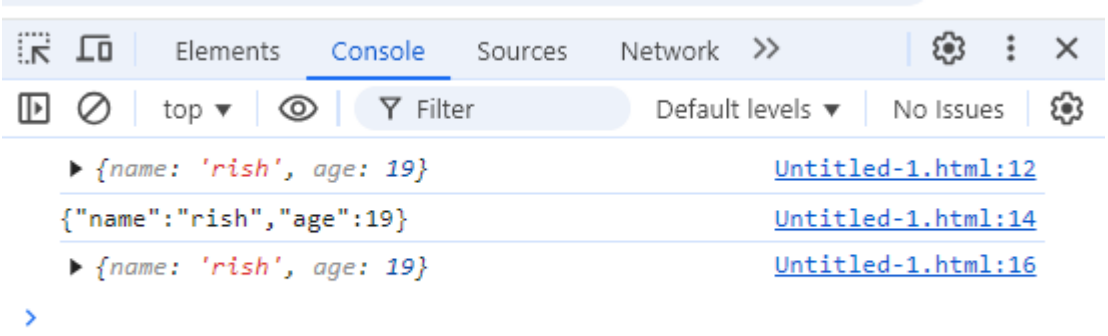


task 10:

```
<!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 obj={name:"rish",age:19
      };
      console.log(obj);
```

```
    let stringobj=JSON.stringify(obj);
    console.log(stringobj);
    let pobj=JSON.parse(stringobj);
    console.log(pobj);
    </script>
</body>
</html>
```

output:

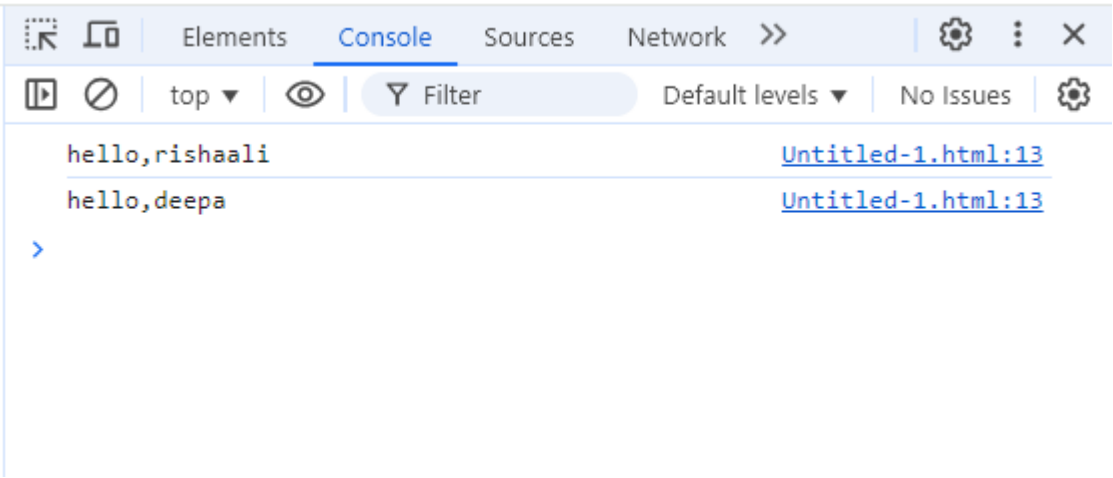


task 11:

```
<!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>
      function a(){
        let x="hello,";
        return function(name){
```

```
            console.log(x+""+name);
        }
    }
    const r=a();
    r("rishaali");
    r("deepa");
    </script>
</body>
</html>
```

output:

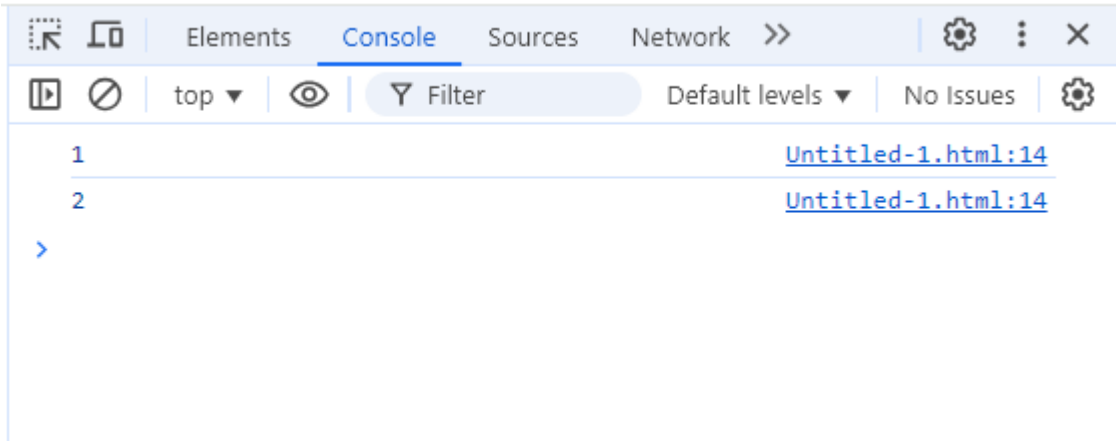


task 12:

```
<!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>
```

```
    function a(){
      let x=0;
      return function(){
              x++;
          console.log(x);
      }
    }
    const r=a();
    r();
    r();


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

output:

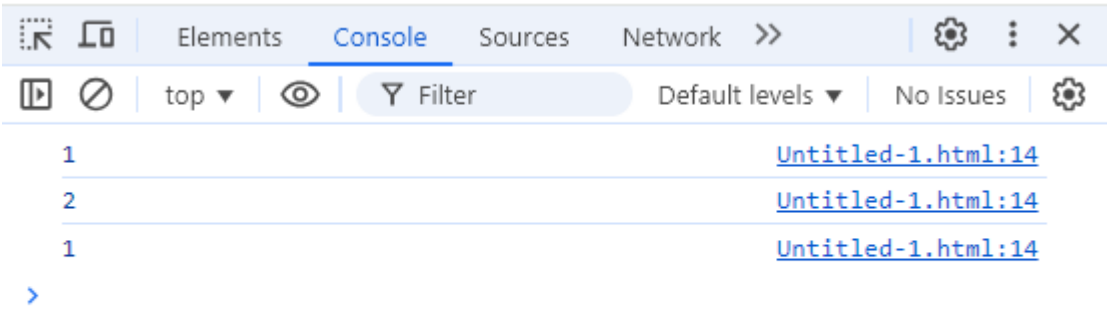


task 13:

```
<!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>
      function a(){
        let x=0;
        return function(){
                x++;
            console.log(x);
        }
      }
      const r=a();
      const m=a();
      r();
      r();
    m();
      </script>
</body>
</html>
```

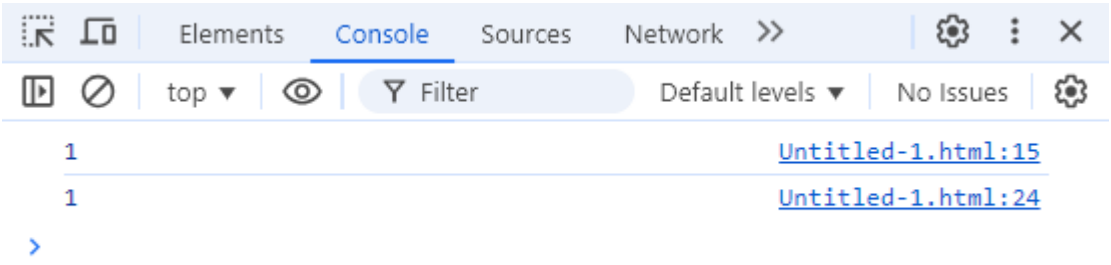
output:



task 14:

```
<!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>
      function a(){
        let x=0;
        return{
                increment:function(){
                  x++;
                  console.log(x);
                },
                getcount:function(){
                  return x;
                }
        }
      }
      const r=a();
      r.increment();
      console.log(r.getcount());
      </script>
</body>
</html>
```

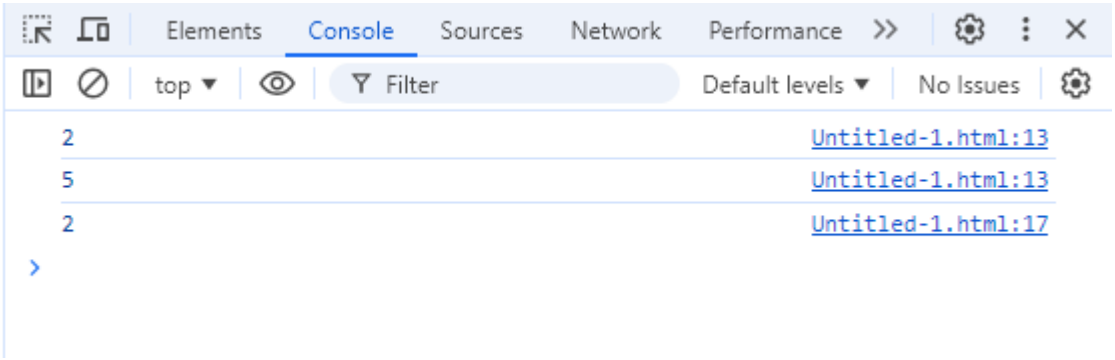
output:



task 15:

```
<!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>
        function x(){
            return{
                add:function(a,b){
                    console.log(a+b);

                },
                sub:function(a,b){
                  console.log(a-b);
                }

            }
        }
        const r=x();
        r.add(1,1);
        r.add(3,2);
        r.sub(3,1);
    </script>
</body>
</html>
```

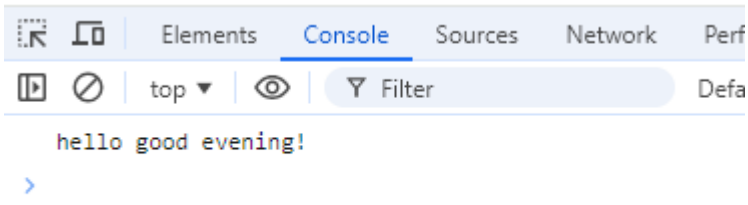
Output:



Task 16:

```
<!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 myPromise= new Promise(function(resolve){
            setTimeout(()=>{resolve("hello good evening!");},3000)
        });
        myPromise.then(
            function(value){
                console.log(value);
            }
        );
    </script>
</body>
</html>
```

Output:



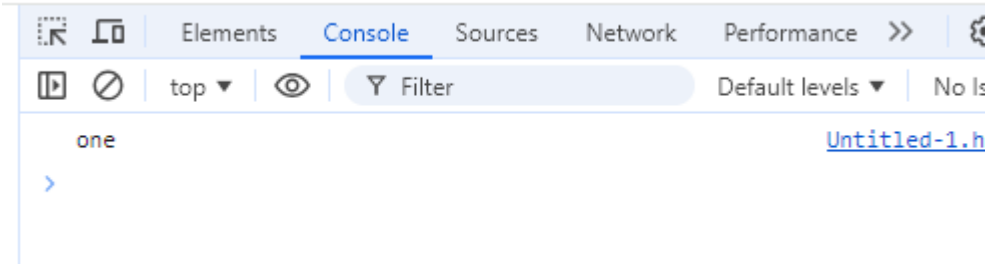
Task 17:

Task 18:

```
<!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>
        function a(n){
            return new Promise((resolve,reject)=>{
            setTimeout(()=>{
                if(n==1)
                resolve("one");
            else
            reject("error");},3000)
        });}
        a(1)
        .then((value)=>{
                console.log(value);
            }
        );
    </script>
</body>
</html>
```

Output:



Task 19:

task 20:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

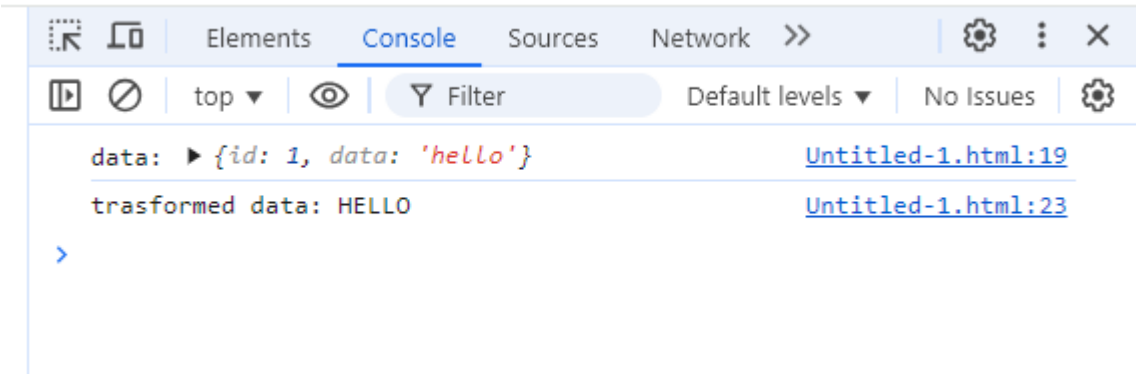
<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

```
<body>
    <script>
      let fetchdata=(id)=>{
        return new Promise(function(resolve,reject){
    setTimeout(()=>{if(id==1)resolve({id,data:"hello"});
else
reject("error computed");},3000);
        });
      }
      fetchdata(1)
      .then((response)=>{
        console.log("data:",response);
        return response.data.toUpperCase();
      })
      .then((transformedData)=>{
        console.log("trasformed data:",transformedData);
      })
      .catch((error)=>{
        console.log("error occured:",error);
      });
      </script>
</body>
</html>
```

output:

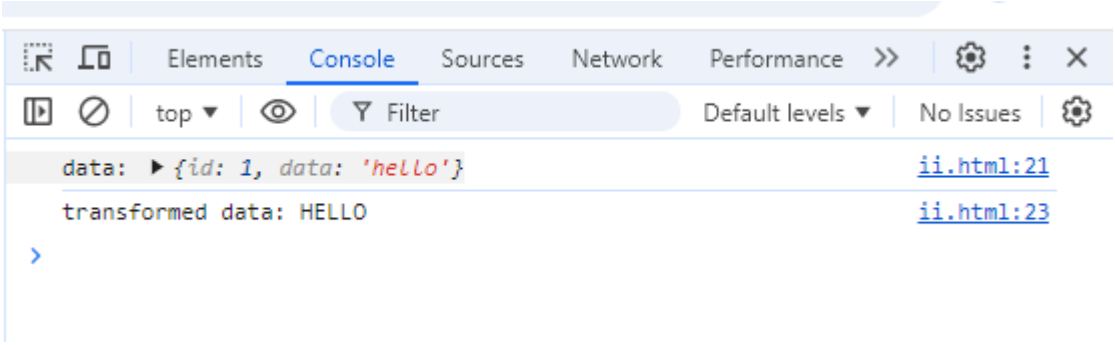


task 21:

```
<!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 fetchdata=(id)=>{
        return new Promise(function(resolve,reject){
    setTimeout(()=>{if(id==1)resolve({id,data:"hello"});
else
reject("error computed");},3000);
        });
      }

      const a= async (id)=>{
        try{
      const response= await fetchdata(id);
```

```
        console.log("data:",response);
        const transformedData=await response.data.toUpperCase();
        console.log("transformed data:",transformedData);
      }
      catch(error){
        console.log("error occured:",error);
      }};
      a(1);
      </script>
</body>
</html>
```

output:

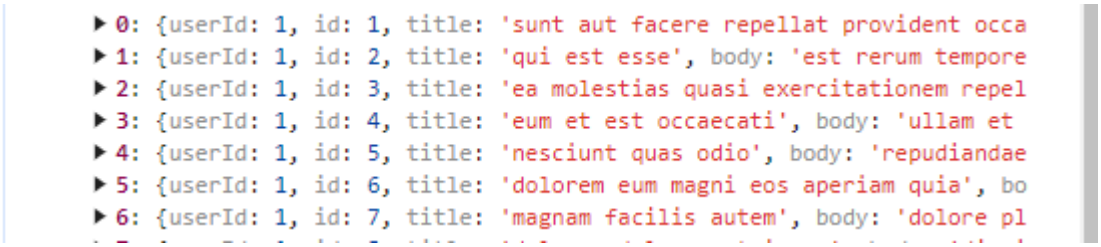


task 22:

```
<!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>
```

```
 const fetchdata=async()=>{
      try{
            const response=await fetch('https://jsonplaceholder.typicode.com/posts');
            const info=await response.json();
            console.log(info);
      }catch(error){
            console.log("error occured");
      }
 };
 fetchdata();
    </script>
</body>
</html>
```

output:

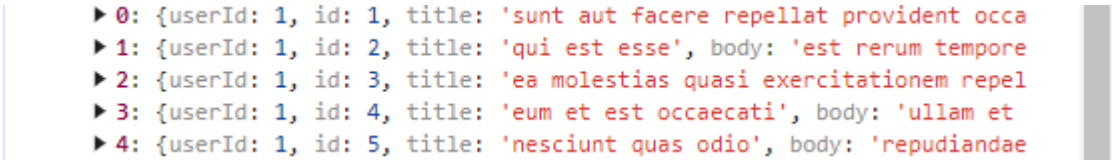


task 23:

```
<!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>
```

```
 const fetchdata=async()=>{
      try{
            const response=await fetch('https://jsonplaceholder.typicode.com/posts');
            const info=await response.json();
            console.log(info);
      }catch(error){
            console.log("error occured");
      }
 };
 fetchdata();
    </script>
</body>
</html>
```

output:



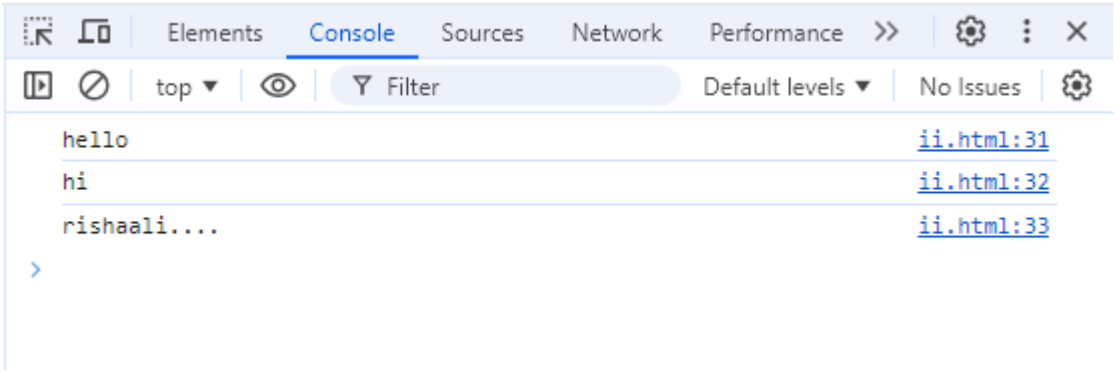
task 24:

```
<!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>
      const f1=()=>new Promise((resolve)=>{
```

```
        setTimeout(()=>{
            resolve("hello");
        },3000)
    }
    );const f2=()=>new Promise((resolve)=>{
        setTimeout(()=>{
            resolve("hi");
        },3000)
    }
    );
    const f3=()=>new Promise((resolve)=>{
        setTimeout(()=>{
            resolve("rishaali....");
        },3000)
    }
    );
const fetchdata=async()=>{
    try{
        const [a1,a2,a3]=await Promise.all([f1(),f2(),f3()]);

        console.log(a1);
        console.log(a2);
        console.log(a3);
    }catch(error){
        console.log("error occured");
    }
};
fetchdata();
```

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

output:

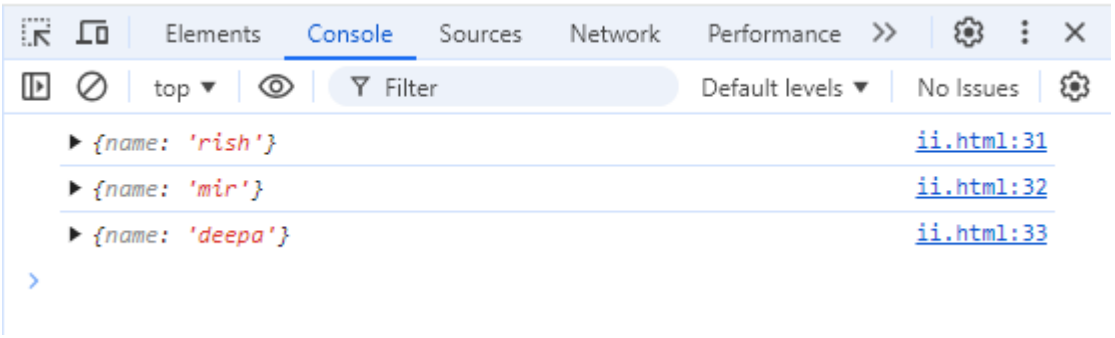


task 25:

```
<!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>
        const f1=()=>new Promise((resolve)=>{
                setTimeout(()=>{
                    resolve({name:"rish"});
                },3000)
        }
        );const f2=()=>new Promise((resolve)=>{
                setTimeout(()=>{
                    resolve({name:"mir"});
```

```
            },3000)
        }
        );
        const f3=()=>new Promise((resolve)=>{
            setTimeout(()=>{
                resolve({name:"deepa"});
            },3000)
        }
        );
    const fetchdata=async()=>{
        try{
            const [a1,a2,a3]=await Promise.all([f1(),f2(),f3()]);

            console.log(a1);
            console.log(a2);
            console.log(a3);
        }catch(error){
            console.log("error occured");
        }
    };
    fetchdata();
      </script>
</body>
</html>
```

output:



task 26:

module.js

```
<!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>
    <h1>hi...</h1>
    <script type="module" src="main.js"></script>
</body>
</html>
```

main.js

```
import greet from './greet.js';
export default function main(){
  greet();
}
main();
```

greet.js

```
export default function greet(){
        var a="Hello,Good Morning!!";
        console.log(a);

}
```

output:

task 27:

module.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 type="module" src="main.js"></script>
</body>
</html>
```

main.js

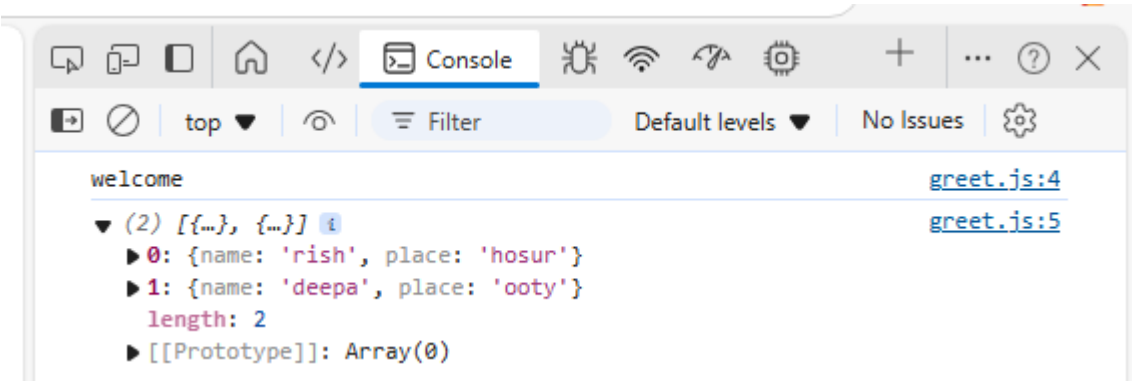
```
import greet from './greet.js';
export default function main(){
  greet();
}
```

main();

greet.js

```
export default function greet(){
        var a="welcome";
        const b=[ {name:"rish",place:"hosur"},{name:"deepa",place:"ooty"}];
        console.log(a);
      console.log(b);
}
```

output

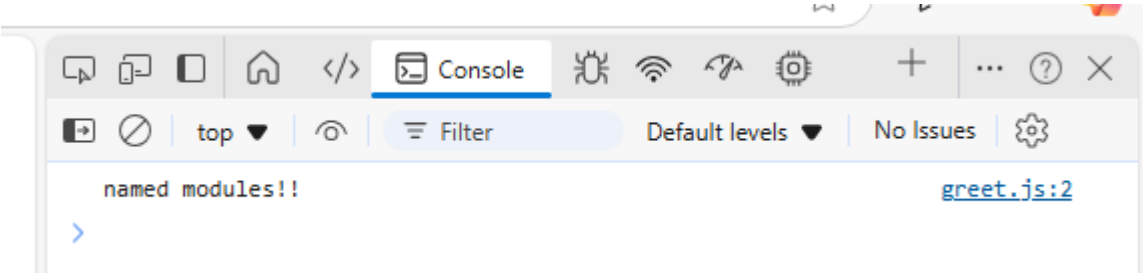


task 28:

```
<!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 type="module" src="main.js"></script>
</body>
</html>
```

```
import {greet} from './greet.js';
export    function main(){
  greet();
}
main();
export function greet(){
        console.log("named modules!!")
}
```

output:



task 29:

module.js

```
<!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 type="module" src="main.js"></script>
</body>
</html>
```

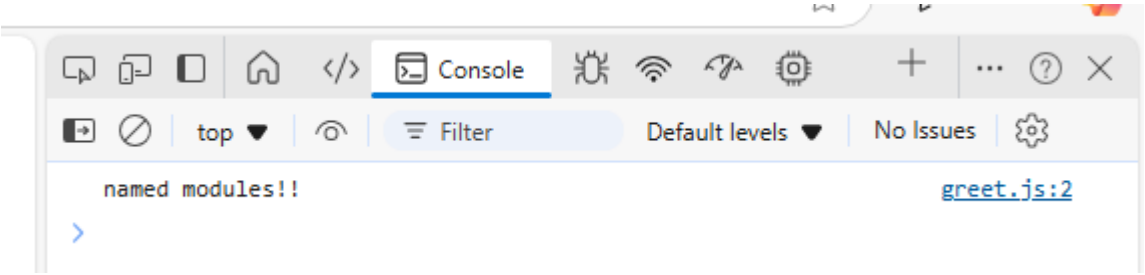
main.js:

```
import {greet} from './greet.js';
export default function main(){
  greet();
}
main();
```

greet.js

```
export function greet(){
        console.log("named modules!!")
}
```

output:



task 30:

module.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 type="module" src="run.js"></script>
```

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

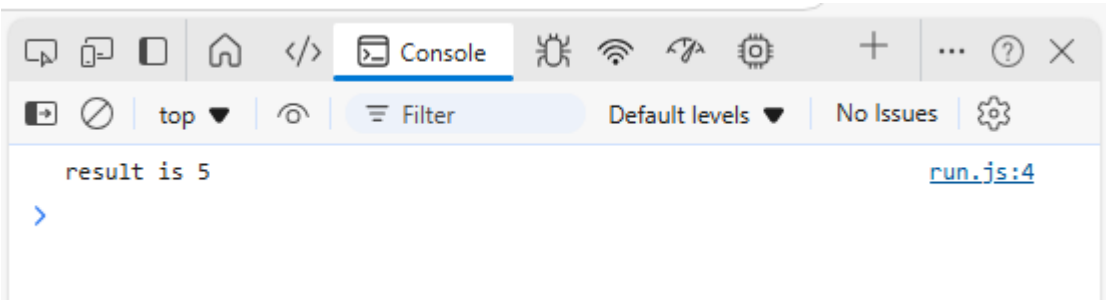
run.js

```
import sum from './sum.js';
export default function run(){
    const res= sum(3,2);
     console.log(`result is ${res}`);
}
run();
```

sum.js

```
export default function sum( a, b){
return a+b;
}
```

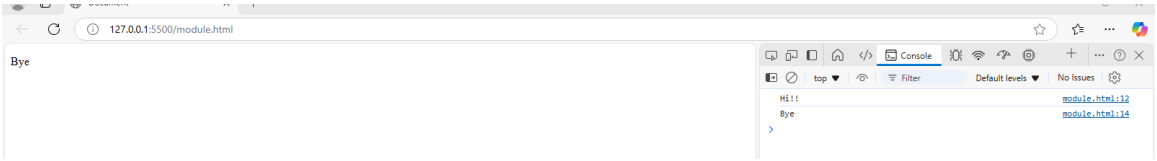
output:



task 31:

```
<!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>
```

```
    <p id="one">Hi!!</p>
        <script>
            const a=document.getElementById("one");
            console.log(a.textContent);
            a.textContent="Bye";
            console.log(a.textContent);
        </script>
</body>
</html>
```



task 32:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        #btn{
            background-color: antiquewhite;
            height: 100px;
            width:100px;
        }
    </style>
</head>
<body>
```

```
    <button onclick="change()" id="btn">change</button>
        <script>
            var a=document.getElementById("btn");
            function change(){
                a.style.backgroundColor="red";
            }
        </script>
</body>
</html>
```

task 33:

```
<!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>

    <ul id="one">
        <li>monday</li>
        <li>tuesday</li>
        <button onclick="add()">add</button>
```

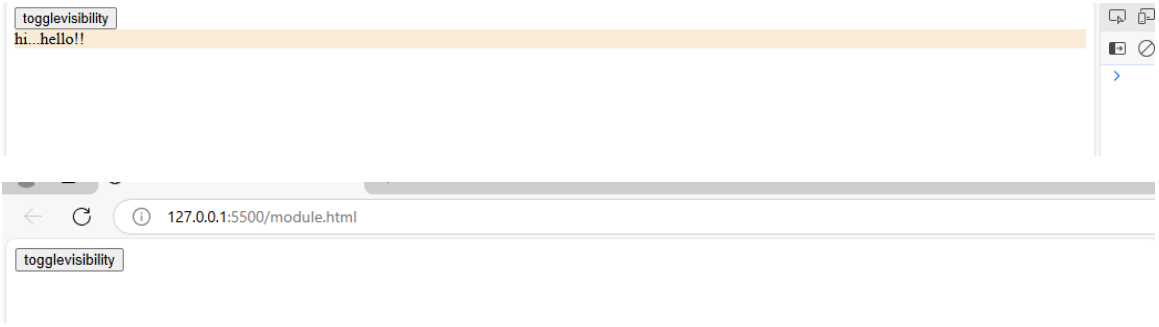
```
    </ul>
        <script>
            function add(){
            var a=document.getElementById("one");
            var b=document.createElement("li");
            b.textContent="wednesday";
            a.append(b);
            }
        </script>
</body>
</html>
```

- monday
- tuesday
  add
- wednesday

task 34:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        #one{
            background-color: antiquewhite;
        }
        #btn{
```

```
            height: 100px;
            width:100px;
        }
    </style>
</head>
<body>

    <button onclick="add()">togglevisibility</button>
  <div id="one">hi...hello!!</div>
    <script>
        function add(){
    const a=document.getElementById("one");
    if(a.style.display==="none"){
        a.style.display="block";
    }
    else{
        a.style.display="none";
    }

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



task 35:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
<style>
    .width{
background-color: aqua;
width:300px;    }
#one{
    height: 100px;
    width:100px;
    background-color: bisque;
}
</style>
</head>
<body>
    <div class="width" id="one" >
   <button onclick="change()" id="btn">change</button>
</div>
    <script>
          function change(){
        var a=document.getElementById("btn");
        var b=document.getElementById("one");
            a.style.backgroundColor="red";
            b.setAttribute("class","width");
```

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