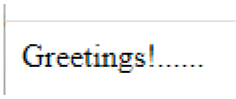
RollNo: 717823F115
Name: Gautamavell Elango

4. Promise, Promises chaining:

Task 16:

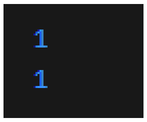
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>JavaScript</title>
</head>
<body>
  <script>
    let promise = new Promise((resolve,reject)=>{
      setTimeout(()=>resolve("Greetings!......"),1000)
    })
    promise.then(
      result => document.write(result),
      error => document.write(error)
    )
  </script>
</body>
</html>
```



```
Greetings!......
```

Task 17:

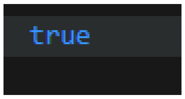
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>GitHub User Info</title>
</head>
<body>
    <script>
        fetch('https://api.github.com/users/iliakan')
            .then(response => {
                if (!response.ok) return Promise.reject('Failed to fetch data');
                return response.json();
            })
            .then(data => {
                const processedData = {
                    username: data.login,
                    name: data.name,
                    publicRepos: data.public_repos
                };
                console.log(processedData);
        })
        .catch(error => console.error('Error:', error));
    </script>
</body>
</html>
```



```
1
1
```

Task 18:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>JavaScript</title>
</head>
<body>
  <script>
    randomnumber = (num)=>{
      return new Promise((response,reject)=>{
        if(num%2==0) response(true);
        else reject(false)
      })
    }
    let i1 = randomnumber(10)
    i1.then(
      result=>console.log(result),
      error=>console.log(error)
    )
  </script>
</body>
</html>
```

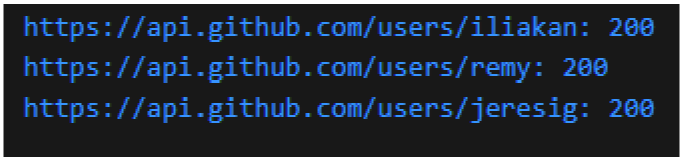


```
true
```

Task 19:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>JavaScript</title>
</head>
<body>
  <script>
    let urls = [
    'https://api.github.com/users/iliakan',
  'https://api.github.com/users/remy',
  'https://api.github.com/users/jeresig'
];
```

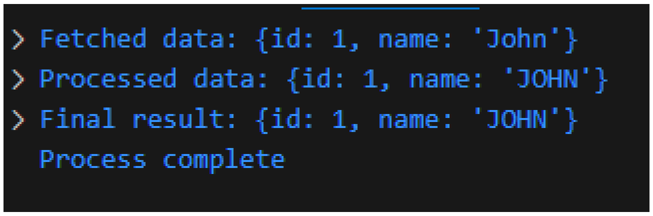
```
let requests = urls.map(url => fetch(url));
Promise.all(requests)
  .then(responses => responses.forEach(
    response =>console.log(`${response.url}: ${response.status}`)
  ));
  </script>
</body>
</html>
```



```
https://api.github.com/users/iliakan: 200
https://api.github.com/users/remy: 200
https://api.github.com/users/jeresig: 200
```

Task 20:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Promise Chain Example</title>
</head>
<body>
    <script>
        function fetchData() {
            return new Promise((resolve) => {
                setTimeout(() => {
                    const data = { id: 1, name: "John" };
                    console.log('Fetched data:', data);
                    resolve(data);
                }, 1000);
            });
        }
        function processData(data) {
            return new Promise((resolve) => {
                setTimeout(() => {
                    data.name = data.name.toUpperCase();
                    console.log('Processed data:', data);
                    resolve(data);
                }, 1000);
            });
        }
        function logResult(data) {
            return new Promise((resolve) => {
                setTimeout(() => {
                    console.log('Final result:', data);
                    resolve('Process complete');
                }, 1000);
            });
        }
        fetchData()
            .then(data => processData(data))
            .then(processedData => logResult(processedData))
            .then(result => console.log(result))
            .catch(error => console.error('Error:', error));
    </script>
</body>
</html>
```

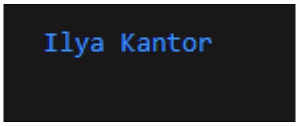


```
> Fetched data: {id: 1, name: 'John'}
> Processed data: {id: 1, name: 'JOHN'}
> Final result: {id: 1, name: 'JOHN'}
  Process complete
```

5. Async/await:

Task 21:

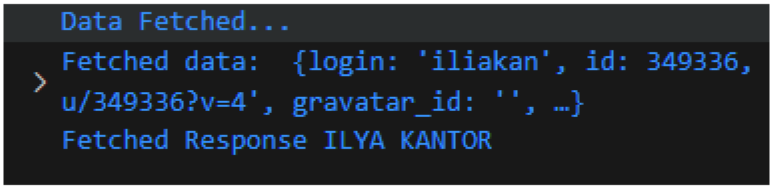
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Promise Chain Example</title>
</head>
<body>
    <script>
        async function fetchData() {
            try {
                const response = await fetch('https://api.github.com/users/iliakan');
                if (!response.ok) {
                    throw new Error('Failed to fetch data');
                }
                const data = await response.json();
                console.log(data.name);
                return data;
            } catch (error) {
                console.error('Error:', error);
            }
        }
        fetchData();
    </script>
</body>
</html>
```



```
Ilya Kantor
```

Task 22:

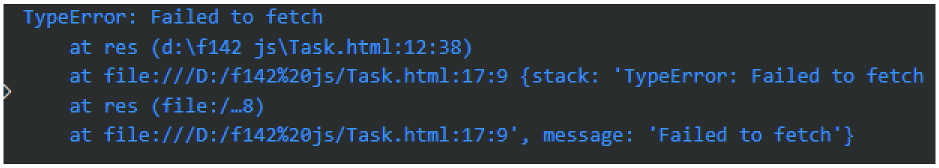
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Promise Chain Example</title>
</head>
<body>
    <script>
        data = async()=>{
            try{
                const url = await fetch('https://api.github.com/users/iliakan')
                if(!url.ok)
                throw new Error("Can't able to fetch the data");
                console.log("Data Fetched...");
                const pro = await url.json()
                console.log("Fetched data: ",pro);
                const pdata = await pro.name.toUpperCase()
                return pdata;
            }catch(error){
                console.error(error)
            }
        }
        data().then((res)=>{
            console.log("Fetched Response",res);
        })
    </script>
</body>
</html>
```



```
  Data Fetched...
> Fetched data:  {login: 'iliakan', id: 349336,
  u/349336?v=4', gravatar_id: '', …}
  Fetched Response ILYA KANTOR
```

Task 23:

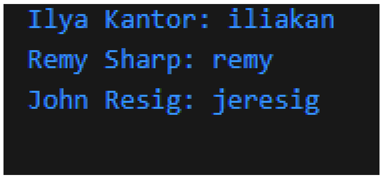
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Promise Chain Example</title>
</head>
<body>
    <script>
        async function res() {
            try {
                let response = await fetch('http://no-such-url');
            } catch (err) {
                console.log(err);
            }
        }
        res();
    </script>
</body>
</html>
```



```
TypeError: Failed to fetch
    at res (d:\f142 js\Task.html:12:38)
    at file:///D:/f142%20js/Task.html:17:9 {stack: 'TypeError: Failed to fetch
    at res (file:/…8)
    at file:///D:/f142%20js/Task.html:17:9', message: 'Failed to fetch'}
```

Task 24:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Promise Chain Example</title>
</head>
<body>
  <script>
   async function name(){
       let urls = [
       'https://api.github.com/users/iliakan',
       'https://api.github.com/users/remy',
       'https://api.github.com/users/jeresig'
       ];
       let requests = await Promise.all(urls.map(url => fetch(url)))
       let obj = await Promise.all(requests.map((res)=>res.json()))
       return obj;
    }
       name().then(responses => responses.forEach(
         response => console.log(`${response.name}: ${response.login}`)
       )).catch(error => {
       console.error('Error:', error);
    });
  </script>
</body>
</html>
```

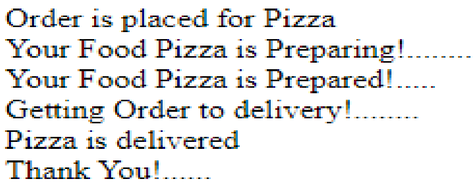


```
Ilya Kantor: iliakan
Remy Sharp: remy
John Resig: jeresig
```

Task 25:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>JavaScript Quiz</title>
</head>
<body>
 <script>
  orderfood = (order) => {
   document.write(`Getting Order!........`)
   document.write("<br>")
```

```
      return new Promise((resolve)=>{
        setTimeout(() => {
          document.write(`Order is placed for ${order}`)
          document.write("<br>")
          resolve(order)
        }, 1000);
      })
    }
    preparefood = (order) => {
      document.write(`Your Food ${order} is Preparing!........`)
      document.write("<br>")
      return new Promise((resolve)=>{
        setTimeout(() => {
          document.write(`Your Food ${order} is Prepared!.....`)
          document.write("<br>")
          resolve(order)
        }, 1000);
      })
    }
    deliverfood = (order) => {
      document.write(`Getting Order to delivery!........`)
      document.write("<br>")
      return new Promise((resolve)=>{
        setTimeout(() => {
          document.write(`${order} is delivered`)
          document.write("<br>")
          resolve(order)
        }, 1500);
      })
    }
    food = async(value) => {
      const order = await orderfood(value)
      const Prepare = await preparefood(order)
      const deliver = await deliverfood(Prepare)
      if(deliver == order){
        document.write("Thank You!......");
      }else{
        document.write("Please Wait!...")
      }
    }
    value = prompt("Enter the Dish you desire: ")
  food(value)
  </script>
</body>
</html>
```

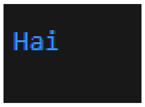


```
Order is placed for Pizza
Your Food Pizza is Preparing!........
Your Food Pizza is Prepared!.....
Getting Order to delivery!........
Pizza is delivered
Thank You!......
```

6. Modules introduction, Export and Import:

Task 26:

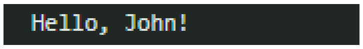
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Promise Chain Example</title>
</head>
<body>
  <script>
    export let name = ()=>{console.log("Hell!js..")};
    export const val = 2015;
    export class User {
      constructor(name) {
        this.name = name;
      }
      sayhi = ()=>{console.log("Hai");}
    }
  </script>
</body>
</html>
```



```
Hai
```

Task 27:

```
<!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">
    import { sayHi } from './task.js';
    sayHi('John');
  </script>
</body>
</html>
```

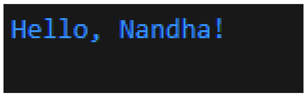


```
Hello, John!
```

Task 28:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Promise Chain Example</title>
</head>
<body>
```

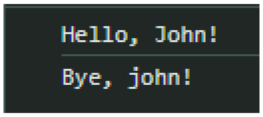
```
    <script type="module">
        export function sayHi(user) {
            console.log(`Hello, ${user}!`);
        }

        export function sayBye(user) {
            console.log(`Bye, ${user}!`);
        }
        sayHi("Nandha")
    </script>
</body>
</html>
```



```
Hello, Nandha!
```

Task 29:

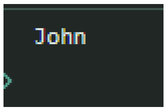
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="module">
        import { sayHi,sayBye } from './task.js';
        sayHi('John');
        sayBye('john')
    </script>
</body>
</html>
```



```
Hello, John!
Bye, john!
```

Task 30:

```
<!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">
        import User from './task.js';
        new User('John');
    </script>
</body>
</html>
```



```
John
>
```