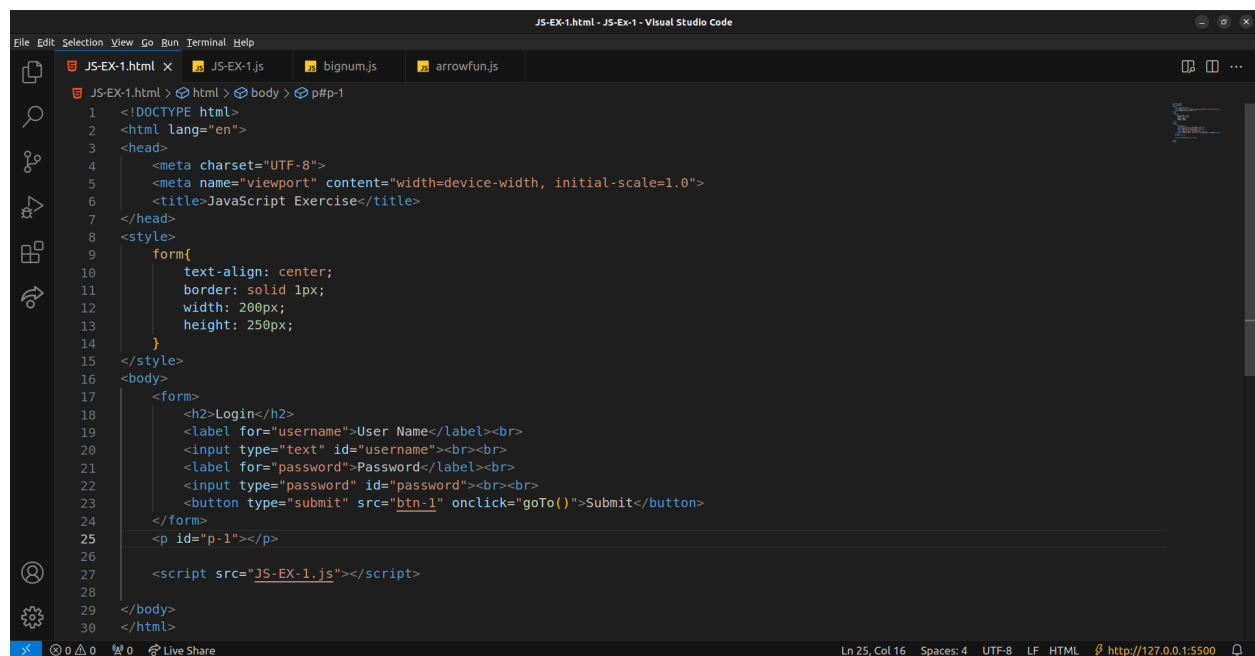


# JS-Exercise-1

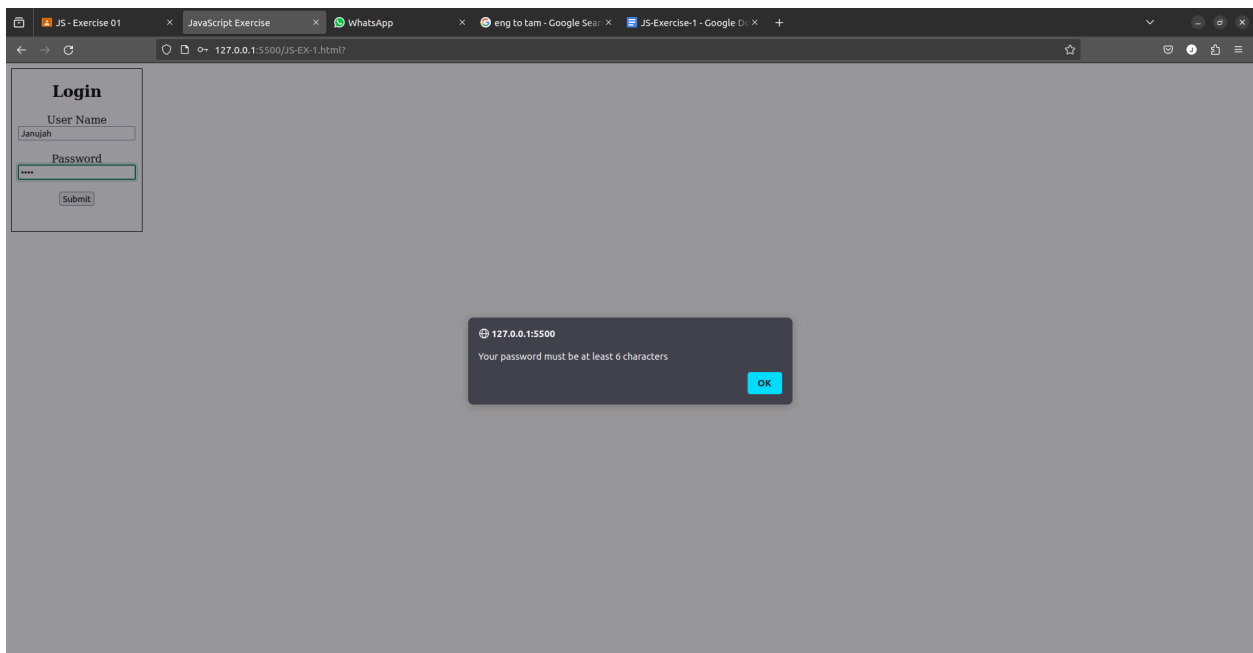
## Question-1

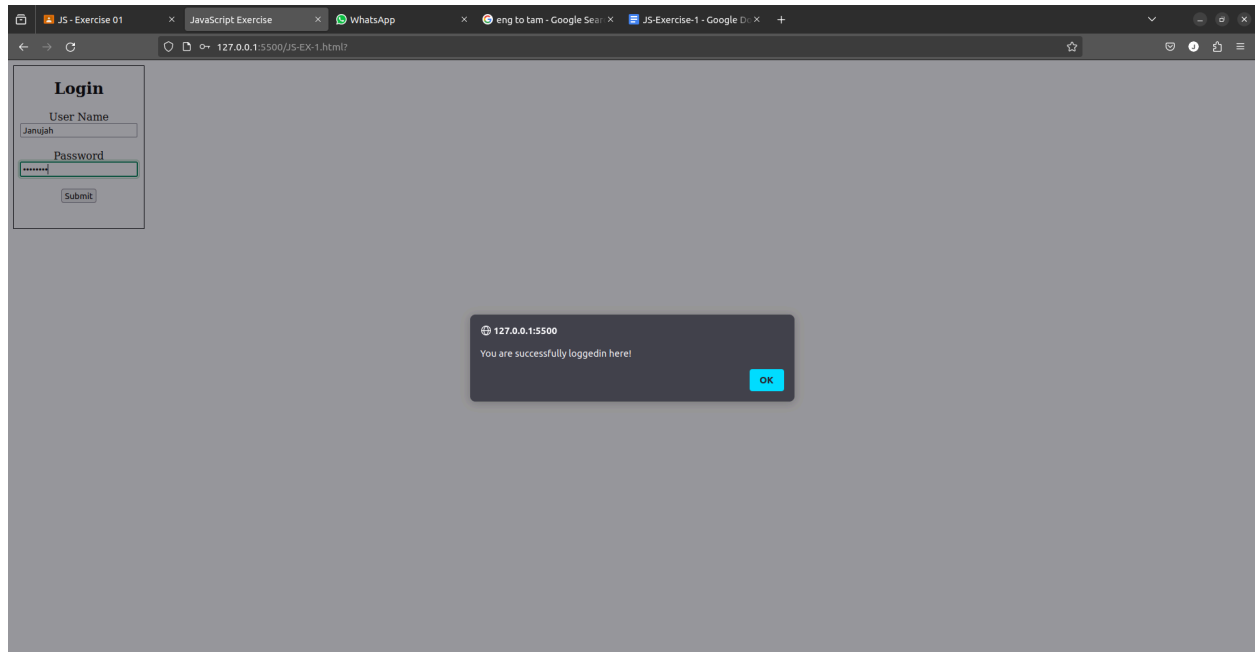
1. Authentication means verifying the user or device before allowing access.
2. Authentication is the process of verifying who someone is, but Authorization is the process of verifying what specific applications, files and data a user has access to.
- 3,4,5.



```
JS-EX-1.html - JS-EX-1 - Visual Studio Code
File Edit Selection View Go Run Terminal Help
JS-EX-1.html x JS-EX-1.js bignum.js arrowfun.js
JS-EX-1.html > html > body > p#p-1
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>JavaScript Exercise</title>
7 </head>
8 <style>
9   form{
10     text-align: center;
11     border: solid 1px;
12     width: 200px;
13     height: 250px;
14   }
15 </style>
16 <body>
17   <form>
18     <h2>Login</h2>
19     <label for="username">User Name</label><br>
20     <input type="text" id="username"><br><br>
21     <label for="password">Password</label><br>
22     <input type="password" id="password"><br><br>
23     <button type="submit" src="btn-1" onclick="goTo()">Submit</button>
24   </form>
25   <p id="p-1"></p>
26
27   <script src="JS-EX-1.js"></script>
28
29 </body>
30 </html>
```

```
JS-EX-1.js - JS-Ex-1 - Visual Studio Code
File Edit Selection View Go Run Terminal Help
JS-EX-1.html JS-EX-1.js X bignum.js arrowfun.js
JS-EX-1.js > goTo
1 function goTo() {
2   var userName = document.getElementById("username").value;
3   var passWord = document.getElementById("password").value;
4
5   if (userName.trim() === "") {
6     document.getElementById("username").style.border = "3px solid red";
7     // alert("Please enter your username");
8   }
9   if (passWord.trim() === "") {
10    document.getElementById("password").style.border = "3px solid red";
11    // alert("Please enter your password");
12  } else if (passWord.length < 6) {
13    alert("Your password must be at least 6 characters");
14  }
15  if (userName.trim() !== "") {
16    document.getElementById("username").style.border = "3px solid green";
17  }
18
19  if (passWord.trim() !== "" && passWord.length >= 6) {
20    document.getElementById("password").style.border = "3px solid green";
21  }
22  if (userName.trim() !== "" && passWord.trim() !== "" && passWord.length >= 6) {
23    alert("You are successfully loggedin here!");
24  }
25 }
26
27
28
Ln 1, Col 1 Spaces: 4 UTF-8 LF {} JavaScript http://127.0.0.1:5500
```





## Question-2

The screenshot shows the Visual Studio Code interface. The editor window displays a JavaScript file named `bignum.js` with the following code:

```
1 let numbers = [1, 2, 3, 2, 3, 4, 5, 666, 7, 778, 908, 123];
2
3 var bigNumber = numbers[0];
4
5 for (var i = 0; i <= numbers.length; i++) {
6     if (numbers[i] > bigNumber) {
7         bigNumber = numbers[i];
8     }
9 }
10
11 console.log(`the biggest number is ${bigNumber}`);
12
13
14
15
16
```

The terminal window at the bottom shows the output of running the code:

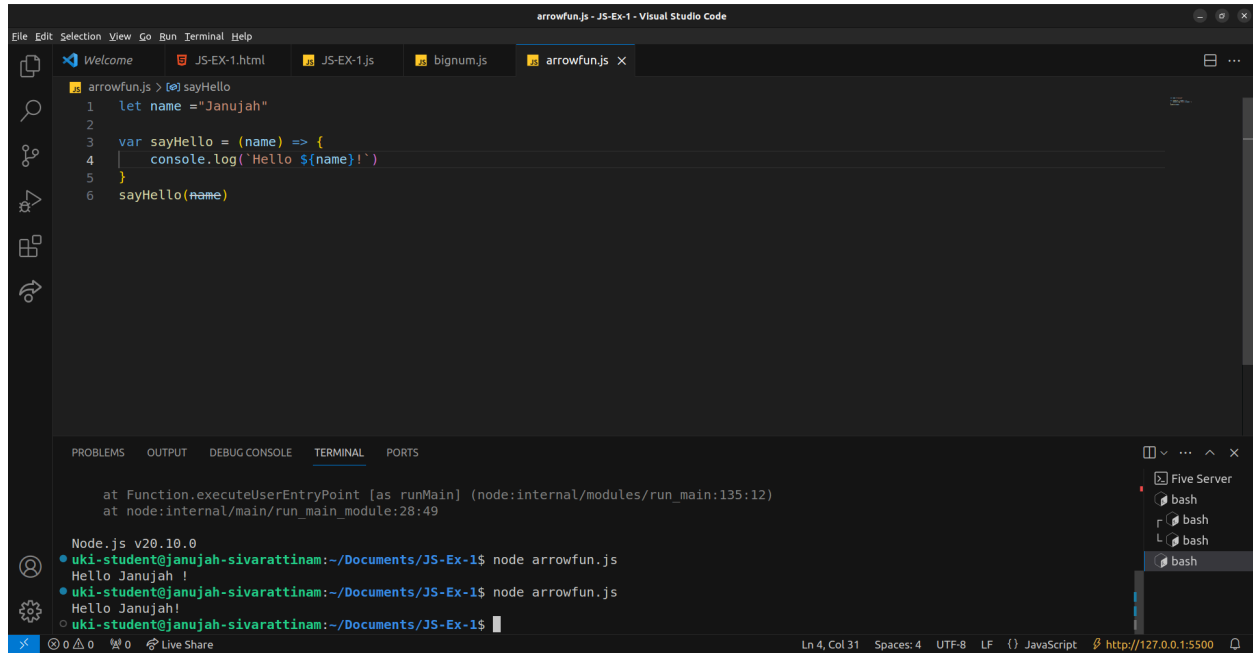
```
Node.js v20.10.0
uki-student@janujah-sivarattinam:~/Documents/JS-Ex-1$ node arrowfun.js
Hello Janujah !
uki-student@janujah-sivarattinam:~/Documents/JS-Ex-1$ node arrowfun.js
Hello Janujah!
uki-student@janujah-sivarattinam:~/Documents/JS-Ex-1$ node bignum.js
the biggest number is 908
uki-student@janujah-sivarattinam:~/Documents/JS-Ex-1$
```

The status bar at the bottom indicates the current file is `bignum.js`, line 11, column 48, with 4 spaces, UTF-8 encoding, LF line endings, and JavaScript language mode. A live share link is also visible: <http://127.0.0.1:5500>.

Question-3

1. Arrow function, is an Anonymous function, that is without name or any identifier.

2.



The screenshot shows the Visual Studio Code editor with a file named `arrowfun.js` open. The code in the editor is as follows:

```
1 sayHello
2   let name = "Janujah"
3
4   var sayHello = (name) => {
5     console.log(`Hello ${name}!`)
6   }
7   sayHello(name)
```

The bottom panel shows the TERMINAL output, which includes the Node.js version and the execution of the script:

```
Node.js v20.10.0
uki-student@janujah-sivarattinam:~/Documents/JS-Ex-1$ node arrowfun.js
Hello Janujah !
uki-student@janujah-sivarattinam:~/Documents/JS-Ex-1$ node arrowfun.js
Hello Janujah!
uki-student@janujah-sivarattinam:~/Documents/JS-Ex-1$
```

The status bar at the bottom indicates the current line and column (Ln 4, Col 31), the encoding (UTF-8), the line feed (LF), the language (JavaScript), and the remote connection (http://127.0.0.1:5500).