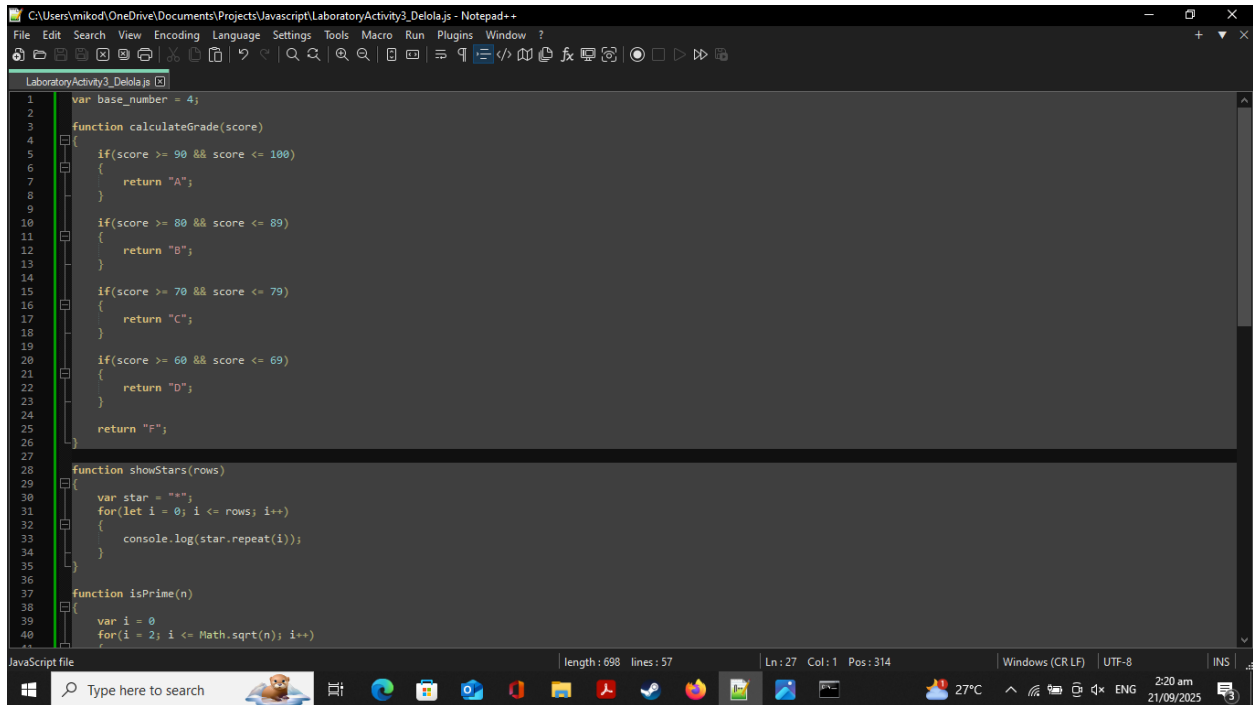
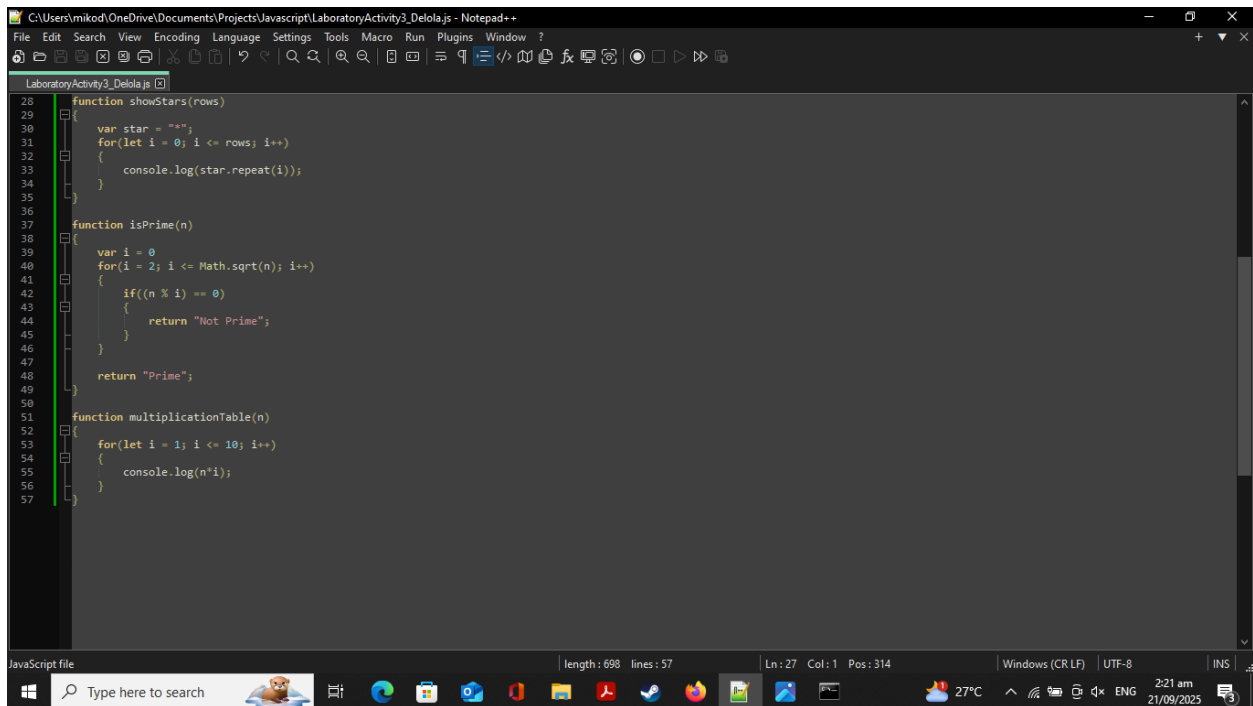


## Source Code Screenshots:



```
1  var base_number = 4;
2
3  function calculateGrade(score)
4  {
5      if(score >= 90 && score <= 100)
6      {
7          return "A";
8      }
9
10     if(score >= 80 && score <= 89)
11     {
12         return "B";
13     }
14
15     if(score >= 70 && score <= 79)
16     {
17         return "C";
18     }
19
20     if(score >= 60 && score <= 69)
21     {
22         return "D";
23     }
24     return "F";
25 }
26
27 function showStars(rows)
28 {
29     var star = "";
30     for(let i = 0; i <= rows; i++)
31     {
32         console.log(star.repeat(i));
33     }
34 }
35
36 function isPrime(n)
37 {
38     var i = 0
39     for(i = 2; i <= Math.sqrt(n); i++)
40     {
41         if((n % i) == 0)
42         {
43             return "Not Prime";
44         }
45     }
46     return "Prime";
47 }
48
49 function multiplicationTable(n)
50 {
51     for(let i = 1; i <= 10; i++)
52     {
53         console.log(n*i);
54     }
55 }
56
57 }
```



```
28 function showStars(rows)
29 {
30     var star = "";
31     for(let i = 0; i <= rows; i++)
32     {
33         console.log(star.repeat(i));
34     }
35 }
36
37 function isPrime(n)
38 {
39     var i = 0
40     for(i = 2; i <= Math.sqrt(n); i++)
41     {
42         if((n % i) == 0)
43         {
44             return "Not Prime";
45         }
46     }
47     return "Prime";
48 }
49
50 function multiplicationTable(n)
51 {
52     for(let i = 1; i <= 10; i++)
53     {
54         console.log(n*i);
55     }
56 }
57 }
```

## Screenshots of output:

The first screenshot shows the Notepad++ editor with the file `LaboratoryActivity3_Delola.js`. The code includes a prime number checker, a multiplication table function, and a `showStars` function. The Command Prompt window shows the execution of the script, which results in an error: `FileNotFoundError: [Errno 2] No such file or directory: 'F:\Users\mikod\OneDrive\Documents\Projects\Javascript\node'.`

```
40 for(i = 2; i <= Math.sqrt(n); i++)
41 {
42     if((n % i) == 0)
43     {
44         return "Not Prime";
45     }
46 }
47
48 return "Prime";
49
50
51 function multiplicationTable(n)
52 {
53     for(let i = 1; i <= 10; i++)
54     {
55         console.log(n*i);
56     }
57 }
58
59 console.log(calculateGrade(base_number * 10 + 5));
```

Command Prompt

```
Microsoft Windows [Version 10.0.19045.6332]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mikod>cd /OneDrive/Documents/Projects/Javascript
The system cannot find the path specified.

C:\Users\mikod>cd OneDrive/Documents/Projects/Javascript
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
F
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>
```

The second screenshot shows the same Notepad++ editor with the file `LaboratoryActivity3_Delola.js`. The code is similar to the first screenshot, but the `showStars` function is now defined. The Command Prompt window shows the execution of the script, which results in the output of the `showStars` function: a series of asterisks.

```
46 }
47
48 return "Prime";
49
50
51 function multiplicationTable(n)
52 {
53     for(let i = 1; i <= 10; i++)
54     {
55         console.log(n*i);
56     }
57 }
58
59 showStars(base_number + 2);
```

Command Prompt

```
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js

*
**
***
****
*****
*****
*****

C:\Users\mikod\OneDrive\Documents\Projects\Javascript>
```

```
C:\Users\mikod\OneDrive\Documents\Projects\Javascript\LaboratoryActivity3_Delola.js - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Command Prompt
Microsoft Windows [Version 10.0.19045.6332]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mikod>cd /OneDrive/Documents/Projects/Javascript
The system cannot find the path specified.

C:\Users\mikod>cd OneDrive/Documents/Projects/Javascript

C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
F
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
*
**
***
****
*****
*****

C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
Not Prime

C:\Users\mikod\OneDrive\Documents\Projects\Javascript>

LaboratoryActivity3_Delola.js
34 }
35 }
36
37 function isPrime(n)
38 {
39   var i = 0
40   for(i = 2; i <= Math.sqrt(n); i++)
41   {
42     if((n % i) == 0)
43     {
44       return "Not Prime";
45     }
46   }
47   return "Prime";
48 }
49
50
51 function multiplicationTable(n)
52 {
53   for(let i = 1; i <= 10; i++)
54   {
55     console.log(n*i);
56   }
57 }
58
59 console.log(isPrime(base_number+10));

JavaScript file | length: 739 | lines: 59 | Ln: 59 | Col: 38 | Pos: 740 | Windows (CR LF) | UTF-8 | INS
Type here to search
```

```
C:\Users\mikod\OneDrive\Documents\Projects\Javascript\LaboratoryActivity3_Delola.js - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Command Prompt
Microsoft Windows [Version 10.0.19045.6332]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mikod>cd /OneDrive/Documents/Projects/Javascript
The system cannot find the path specified.

C:\Users\mikod>cd OneDrive/Documents/Projects/Javascript

C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
F
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
*
**
***
****
*****
*****

C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
Not Prime

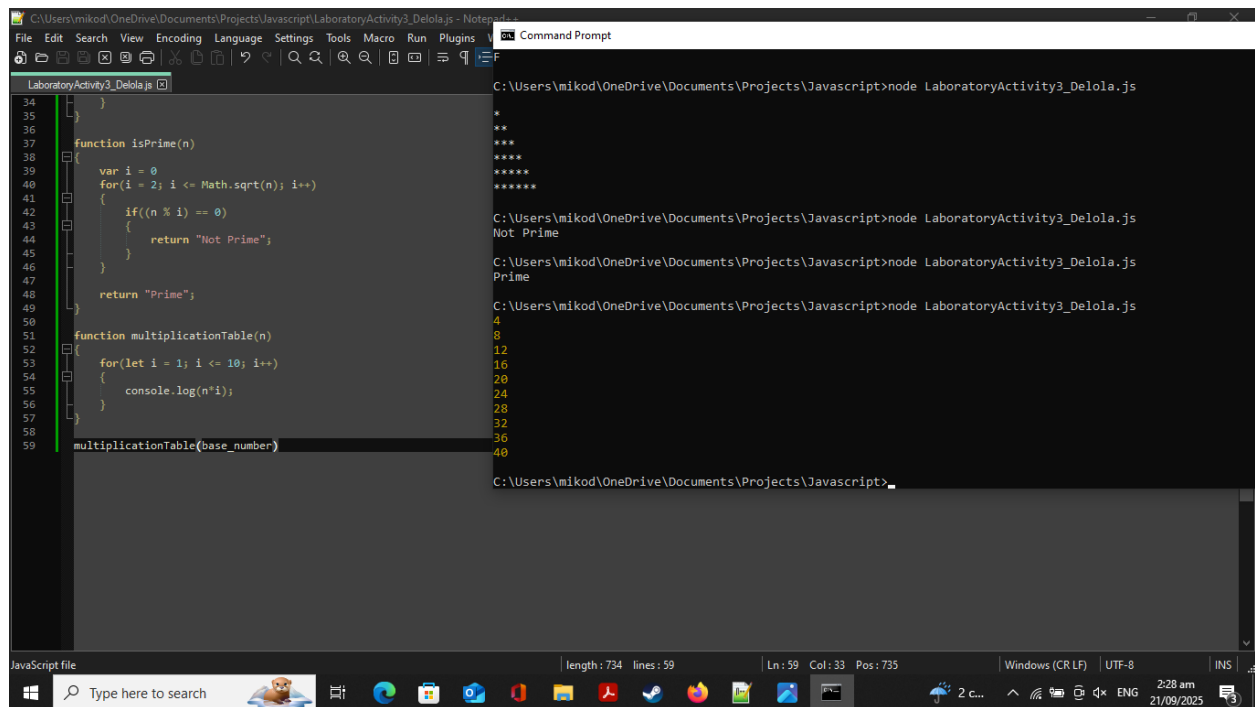
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
Prime

C:\Users\mikod\OneDrive\Documents\Projects\Javascript>

LaboratoryActivity3_Delola.js
34 }
35 }
36
37 function isPrime(n)
38 {
39   var i = 0
40   for(i = 2; i <= Math.sqrt(n); i++)
41   {
42     if((n % i) == 0)
43     {
44       return "Not Prime";
45     }
46   }
47   return "Prime";
48 }
49
50
51 function multiplicationTable(n)
52 {
53   for(let i = 1; i <= 10; i++)
54   {
55     console.log(n*i);
56   }
57 }
58
59 console.log(isPrime(13));

JavaScript file | length: 727 | lines: 59 | Ln: 59 | Col: 23 | Pos: 725 | Windows (CR LF) | UTF-8 | INS
Type here to search
```

*Additional screenshot to show output of isPrime(n) if input is a prime number.*



```
34 }
35
36 function isPrime(n)
37 {
38     var i = 0
39     for(i = 2; i <= Math.sqrt(n); i++)
40     {
41         if((n % i) == 0)
42         {
43             return "Not Prime";
44         }
45     }
46     return "Prime";
47 }
48
49 function multiplicationTable(n)
50 {
51     for(let i = 1; i <= 10; i++)
52     {
53         console.log(n*i);
54     }
55 }
56
57 multiplicationTable(base_number)
58
59
```

```
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
**
**
**
****
*****
*****
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
Not Prime
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
Prime
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>node LaboratoryActivity3_Delola.js
4
8
12
16
20
24
28
32
36
40
C:\Users\mikod\OneDrive\Documents\Projects\Javascript>
```

## Github Repository Link:

<https://github.com/manuelmikozuluetaadelola24-dev/CS-106-Lab-Activity-3.git>