Source Code Screenshots:

```javascript
var base_number = 4;

function calculateGrade(score)
{
    if(score >= 90 && score <= 100)
    {
        return "A";
    }

    if(score >= 80 && score <= 89)
    {
        return "B";
    }

    if(score >= 70 && score <= 79)
    {
        return "C";
    }

    if(score >= 60 && score <= 69)
    {
        return "D";
    }

    return "F";
}

function showStars(rows)
{
    var star = "*";
    for(let i = 0; i <= rows; i++)
    {
        console.log(star.repeat(i));
    }
}

function isPrime(n)
{
    var i = 0
    for(i = 2; i <= Math.sqrt(n); i++)
```
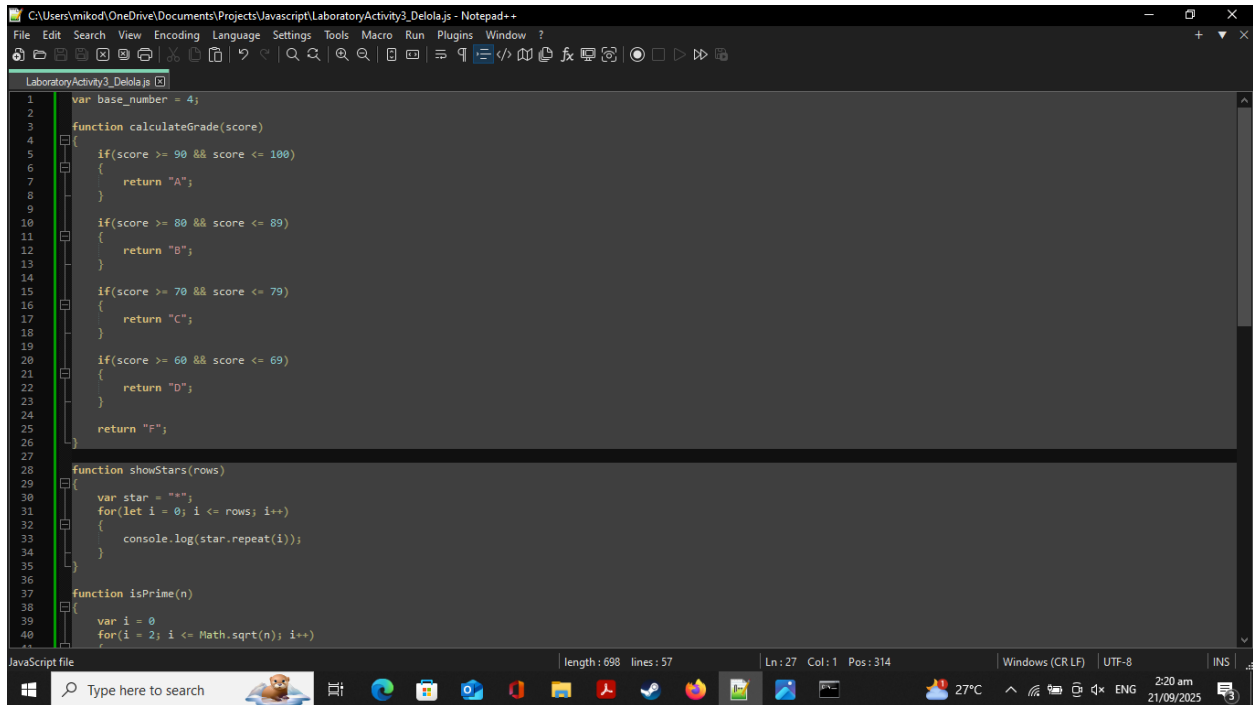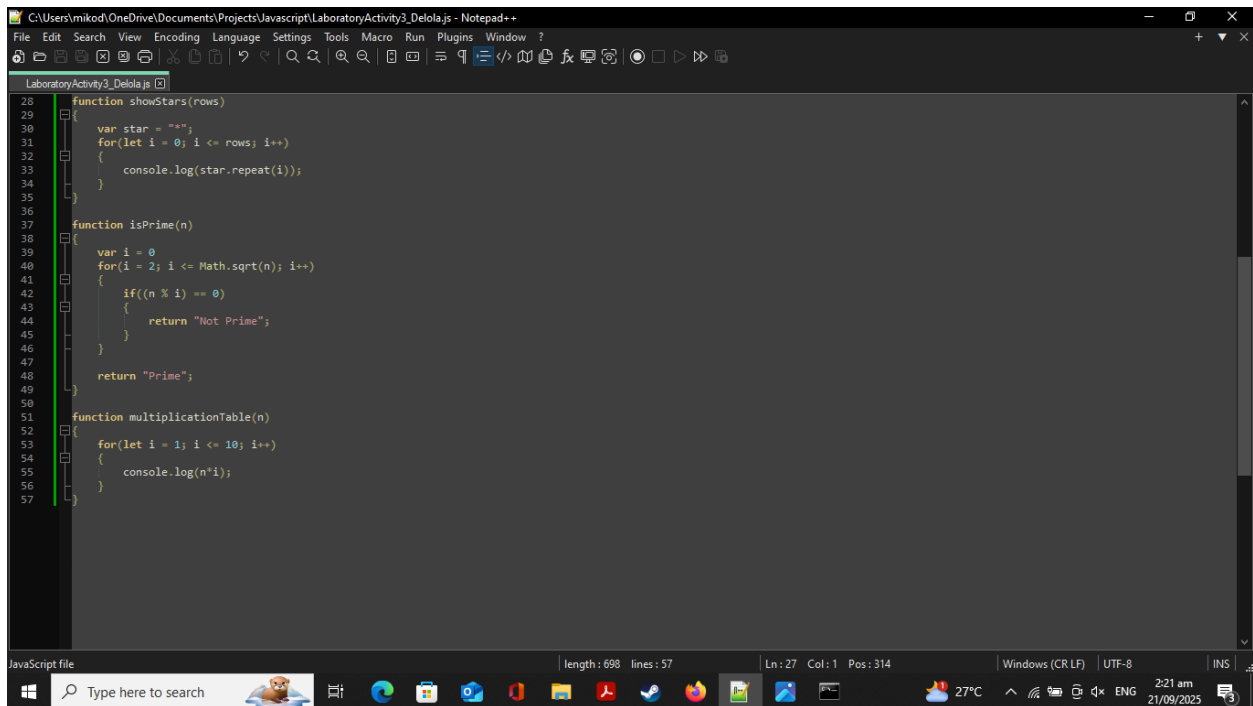
```javascript
function showStars(rows)
{
    var star = "*";
    for(let i = 0; i <= rows; i++)
    {
        console.log(star.repeat(i));
    }
}

function isPrime(n)
{
    var i = 0
    for(i = 2; i <= Math.sqrt(n); i++)
    {
        if((n % i) == 0)
        {
            return "Not Prime";
        }
    }

    return "Prime";
}

function multiplicationTable(n)
{
    for(let i = 1; i <= 10; i++)
    {
        console.log(n*i);
    }
}
```

Screenshots of output:

Top window — Notepad++ (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
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(isPrime(base_number+10));
```

JavaScript file   length : 739   lines : 59   Ln : 59   Col : 38   Pos : 740   Windows (CR LF)   UTF-8   INS

Top window — 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>_
```

Bottom window — Notepad++ (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
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(isPrime(13));
```

JavaScript file   length : 727   lines : 59   Ln : 59   Col : 23   Pos : 725   Windows (CR LF)   UTF-8   INS

Bottom window — 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>
```
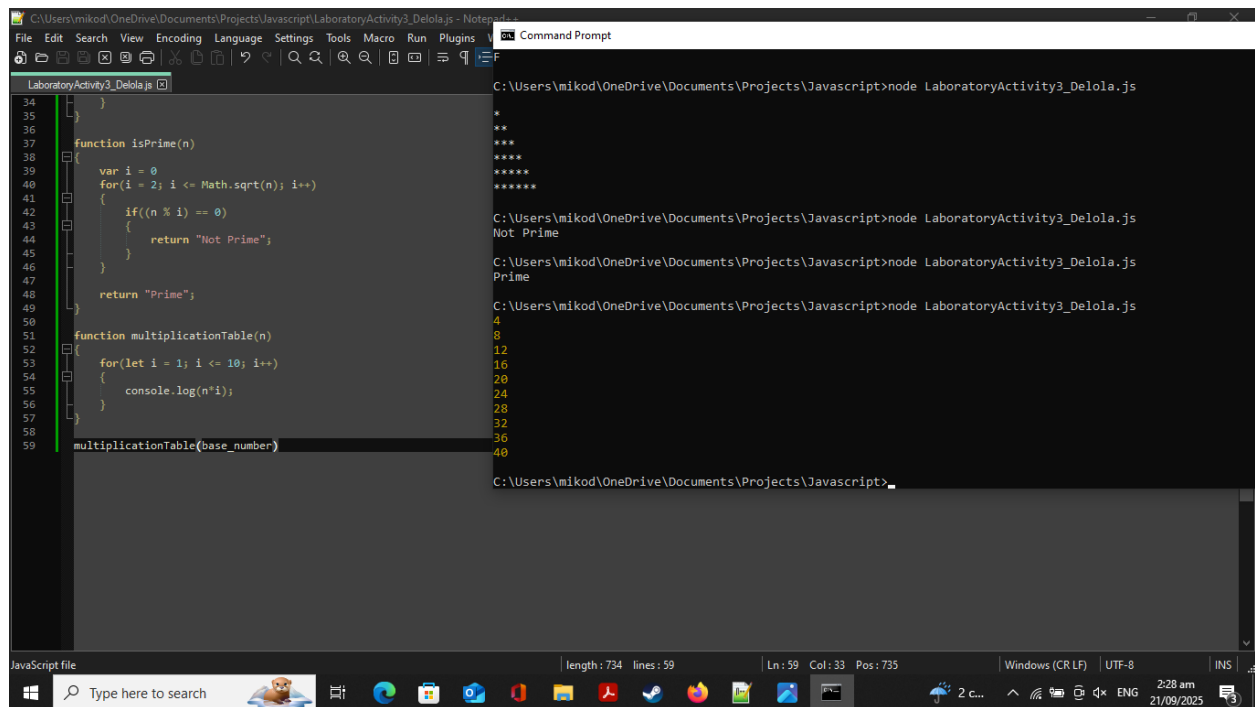
Additional screenshot to show output of isPrime(n) if input is a prime number.

Github Repository Link:

https://github.com/manuelmikozuluetadelola24-dev/CS-106-Lab-Activity-3.git