

SCS2208 Rapid Application Development

Labsheet 04

Index number: 21000557

- Github Repository: https://github.com/ItsAeox/UCSC_RAD_labsheet_07
- Screenshots of the code are given below.

1.

```
JS Question_01.js > ...
1  function addNumbers(a, b) {
2      return a + b;
3  }
4
5  console.log(addNumbers(5, 7))
6

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07> node
12
PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07>
```

2.

```
JS Question_02.js > ...
1  const numbers = [1, 2, 3, 4, 5];
2
3  for (const number of numbers) {
4      console.log(number * number);
5  }
6

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07> node "c:\Use
1
4
9
16
25
PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07>
```

3.

```
JS Question_03.js > ...
1  const numbers = [12, 45, 23, 67, 9];
2
3  const maxNumber = Math.max(...numbers);
4
5  console.log(maxNumber);
6  |

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07> node "c:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07\Question_03.js"
67
PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07>
```

4.

```
JS Question_04.js > factorial
1  function factorial(n) {
2      if (n === 0 || n === 1) {
3          return 1;
4      } else {
5          return n * factorial(n - 1);
6      }
7  }
8
9  console.log(factorial(5))
10

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07> node "c:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07\Question_04.js"
120
PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07>
```

5.

```
JS Question_05.js > ...
1  const fs = require('fs');
2
3  fs.readFile('data.json', 'utf8', (err, data) => {
4    if (err) {
5      console.error('Error reading file:', err);
6      return;
7    }
8
9    const jsonData = JSON.parse(data);
10   console.log('Name:', jsonData.name);
11   console.log('Age:', jsonData.age);
12 });
13
```

```
{ } data.json > ...
1  {
2    "name": "Gayathra Dissanayake",
3    "age": 23
4  }
5
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL powershell

```
PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07> node Question_05.js
Name: Gayathra Dissanayake
Age: 23
PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07>
```

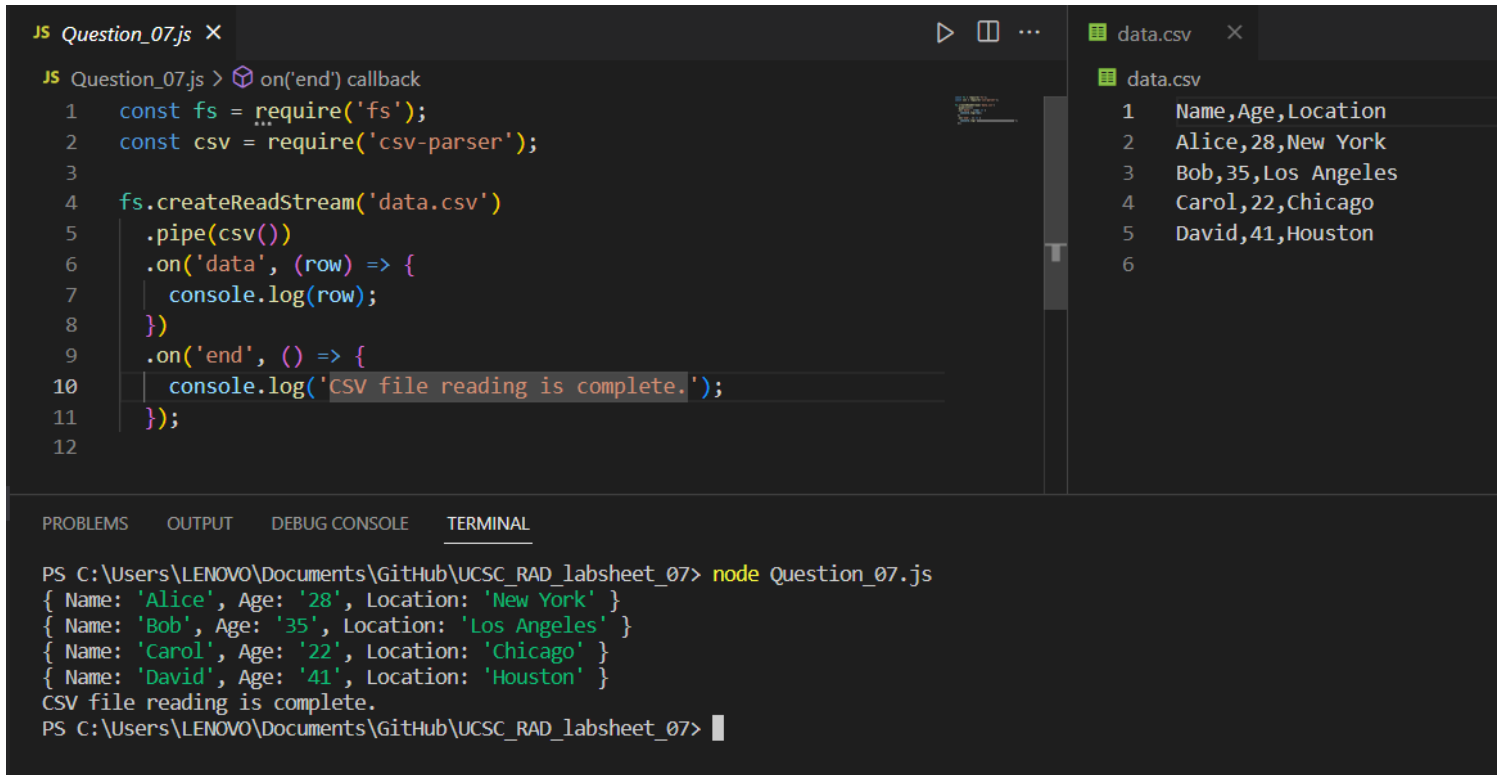
6.

```
JS Question_06.js > ...
1  function reverseString(str) {
2    return str.split('').reverse().join('');
3  }
4
5  console.log(reverseString('hello'));
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07> node "c:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07\Question_06.js"
olleh
PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07>
```

7.



```
JS Question_07.js X
```

```
JS Question_07.js > on('end') callback
1  const fs = require('fs');
2  const csv = require('csv-parser');
3
4  fs.createReadStream('data.csv')
5    .pipe(csv())
6    .on('data', (row) => {
7      console.log(row);
8    })
9    .on('end', () => {
10     console.log('CSV file reading is complete.');

```
data.csv X
```



```
data.csv
1 Name,Age,Location
2 Alice,28,New York
3 Bob,35,Los Angeles
4 Carol,22,Chicago
5 David,41,Houston
6
```



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
```



```
PS C:\Users\LENOVO\Documents\Github\UCSC_RAD_labsheet_07> node Question_07.js
{ Name: 'Alice', Age: '28', Location: 'New York' }
{ Name: 'Bob', Age: '35', Location: 'Los Angeles' }
{ Name: 'Carol', Age: '22', Location: 'Chicago' }
{ Name: 'David', Age: '41', Location: 'Houston' }
CSV file reading is complete.
PS C:\Users\LENOVO\Documents\Github\UCSC_RAD_labsheet_07>
```


```

8.

```
JS Question_08.js > ...
1  const axios = require('axios');
2
3  const apiUrl = 'https://jsonplaceholder.typicode.com/posts';
4
5  axios.get(apiUrl)
6    .then(response => {
7      console.log('API Response:');
8      console.log(response.data);
9    })
10   .catch(error => {
11     console.error('Error fetching data:', error);
12   });
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\LENOVO\Documents\GitHub\UCSC_RAD_labsheet_07> node "c:\Users\LENOVO\Documents\GitHub

API Response:

```
[
  {
    userId: 1,
    id: 1,
    title: 'sunt aut facere repellat provident occaecati excepturi optio reprehenderit',
    body: 'quia et suscipit\n' +
      'suscepit recusandae consequuntur expedita et cum\n' +
      'reprehenderit molestiae ut ut quas totam\n' +
      'nostrum rerum est autem sunt rem eveniet architecto'
  },
  {
    userId: 1,
    id: 2,
    title: 'qui est esse',
    body: 'est rerum tempore vitae\n' +
      'sequi sint nihil reprehenderit dolor beatae ea dolores neque\n' +
      'fugiat blanditiis voluptate porro vel nihil molestiae ut reiciendis\n' +
      'qui aperiam non debitis possimus qui neque nisi nulla'
  },
  {
    userId: 1,
    id: 3,
    title: 'ea molestias quasi exercitationem repellat qui ipsa sit aut',

```