ASSIGNMENT 2

WEB 700

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SCREENSHOTS:
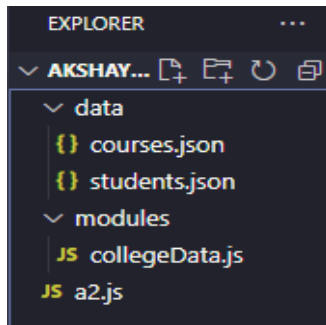

Figure 1 File/Folder Structure
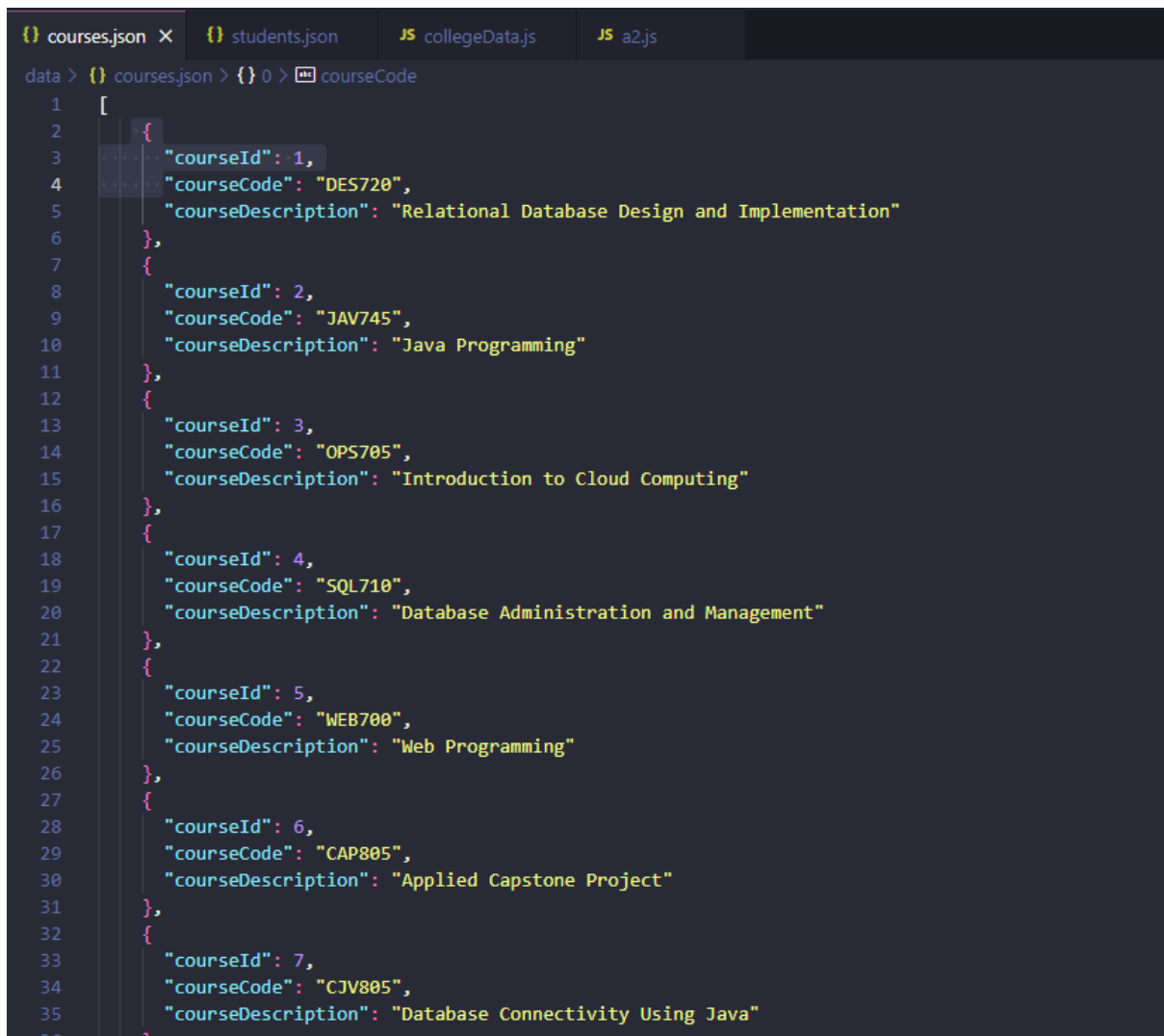

Figure 2 courses.json

```json
[
    {
        "studentNum": 1,
        "firstName": "Foster",
        "lastName": "Thorburn",
        "email": "fthorburn0@mySeneca.ca",
        "addressStreet": "8 Arapahoe Park",
        "addressCity": "Toronto",
        "addressProvince": "ON",
        "TA": true,
        "status": "Full Time",
        "course": 2
    },
    {
        "studentNum": 2,
        "firstName": "Emmy",
        "lastName": "Trehearne",
        "email": "etrehearne1@mySeneca.ca",
        "addressStreet": "66965 Shelley Circle",
        "addressCity": "Toronto",
        "addressProvince": "ON",
        "TA": true,
        "status": "Full Time",
        "course": 2
    },
    {
        "studentNum": 3,
        "firstName": "Zonnya",
        "lastName": "Laytham",
        "email": "zlaytham2@mySeneca.ca",
        "addressStreet": "24665 Scoville Parkway",
        "addressCity": "Toronto",
        "addressProvince": "ON",
        "TA": true,
        "status": "Full Time",
```

Figure 3 Student.json

```javascript
1   const fs = require("fs")
2   class Data {
3       constructor(students, courses) {
4           this.students = students
5           this.courses = courses
6       }
7   }
8   let dataCollection = null
9
10  function initialize() {
11      return new Promise((resolve, reject) => {
12          fs.readFile("./data/students.json", "utf8", (err, studentDataFromFile) => {
13              if (err) {
14                  reject("file not found--student.json")
15                  return
16              }
17              fs.readFile("./data/courses.json", "utf8", (err, courseDataFromFile) => {
18                  if (err) {
19                      reject("file not found--courses.json")
20                      return
21                  }
22                  let studentData = JSON.parse(studentDataFromFile)
23                  let courseData = JSON.parse(courseDataFromFile)
24                  dataCollection = new Data(studentData, courseData)
25                  resolve()
26              })
27          })
28      })
29  }
30  function getAllStudents() {
31      return new Promise((resolve, reject) => {
32          if (dataCollection.students.length > 0) {
33              resolve(dataCollection.students)
34          } else {
35              reject("No results ret")
36          }
```
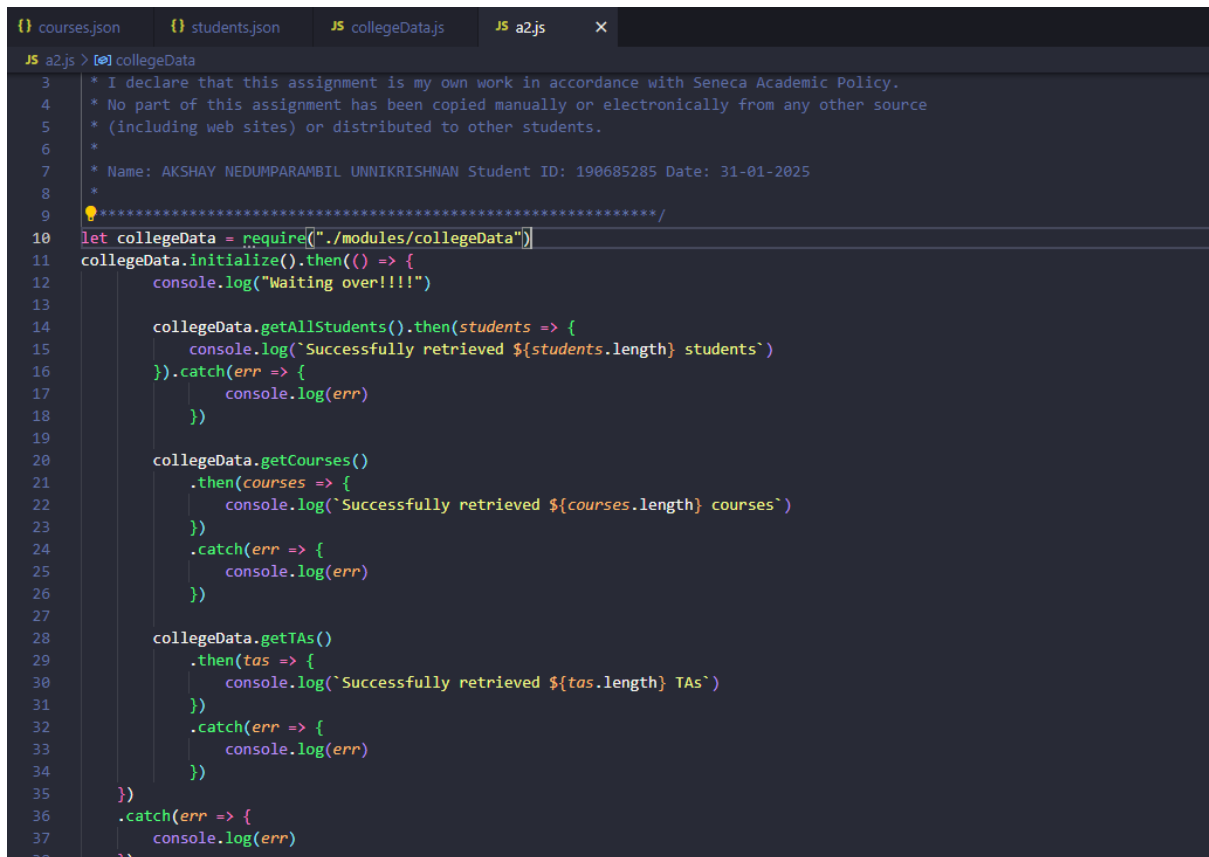
Figure 4 CollegeData.js -1

```javascript
38      }
39      function getCourses() {
40          return new Promise((resolve, reject) => {
41              if (dataCollection.courses.length > 0) {
42                  resolve(dataCollection.courses)
43              } else {
44                  reject("No results")
45              }
46          })
47      }
48      function getTAs() {
49          return new Promise((resolve, reject) => {
50              const tas = dataCollection.students.filter(student => student.TA)
51              if (tas.length > 0) {
52                  resolve(tas)
53              } else {
54                  reject("No results returned")
55              }
56          })
57      }
58      module.exports = {
59          initialize,
60          getAllStudents,
61          getCourses,
62          getTAs
63      }
```
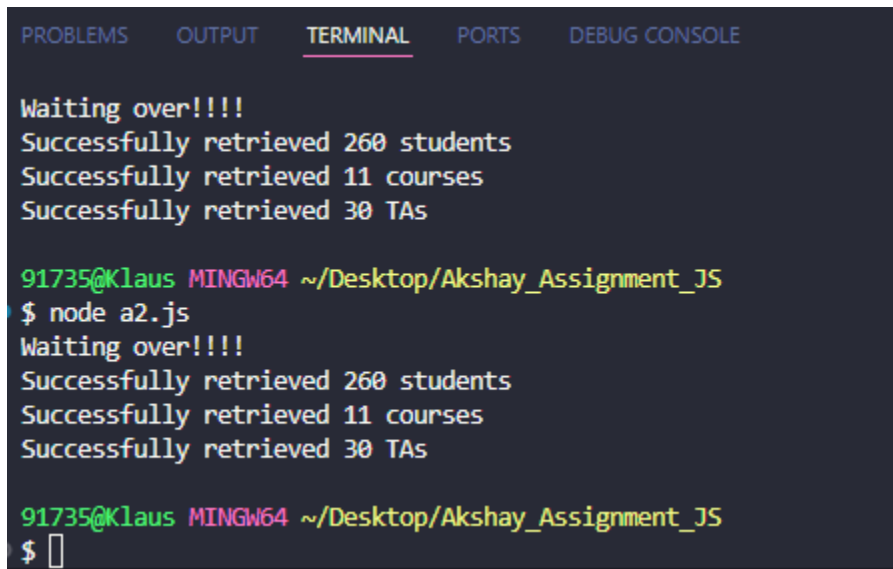
Figure 5 CollegeData.js – 2

```js
     3    * I declare that this assignment is my own work in accordance with Seneca Academic Policy.
     4    * No part of this assignment has been copied manually or electronically from any other source
     5    * (including web sites) or distributed to other students.
     6    *
     7    * Name: AKSHAY NEDUMPARAMBIL UNNIKRISHNAN Student ID: 190685285 Date: 31-01-2025
     8    *
     9    ***************************************************************/
    10   let collegeData = require("./modules/collegeData")
    11   collegeData.initialize().then(() => {
    12       console.log("Waiting over!!!!")
    13
    14       collegeData.getAllStudents().then(students => {
    15           console.log(`Successfully retrieved ${students.length} students`)
    16       }).catch(err => {
    17           console.log(err)
    18       })
    19
    20       collegeData.getCourses()
    21           .then(courses => {
    22               console.log(`Successfully retrieved ${courses.length} courses`)
    23           })
    24           .catch(err => {
    25               console.log(err)
    26           })
    27
    28       collegeData.getTAs()
    29           .then(tas => {
    30               console.log(`Successfully retrieved ${tas.length} TAs`)
    31           })
    32           .catch(err => {
    33               console.log(err)
    34           })
    35   })
    36   .catch(err => {
    37       console.log(err)
```

Figure 6 a2.js

Result:

```
PROBLEMS    OUTPUT    TERMINAL    PORTS    DEBUG CONSOLE

Waiting over!!!!
Successfully retrieved 260 students
Successfully retrieved 11 courses
Successfully retrieved 30 TAs

91735@Klaus MINGW64 ~/Desktop/Akshay_Assignment_JS
$ node a2.js
Waiting over!!!!
Successfully retrieved 260 students
Successfully retrieved 11 courses
Successfully retrieved 30 TAs

91735@Klaus MINGW64 ~/Desktop/Akshay_Assignment_JS
$ []
```