**CMSC203 Assignment 1 Implementation**

Class: CMSC203 CRN 46519

 Program: Assignment #1

Instructor: Farnaz Eivazi

 Summary of Description: This program will give the user steps to allow them to connect to the internet. The user will be prompt to answer if the step worked with a *yes* or *no*. If a step works the program will end; however, if it does not, The next step will be given to the user. If none of the steps works, the user will be asked to contact the ISP.

 Due Date: 06/20/2022

 Integrity Pledge: I pledge that I have completed the programming assignment independently.

 I have not copied the code from a student or any source.

**Part1: Pseudo Code:** Here is a pseudo code for Assignment 1 program:

1. **create a scanner method**
2. **initialize the variables userInput to spring;**
3. **Display to screen “First step: reboot your computer”**
4. **prompt the user with the question “Are you able to connect with the**

**internet? (yes or no)”**

1. **if the answer is yes**
   1. **Display to screen “Rebooting your computer seemed to work”**
2. **(else) if the answer is no do step 7**
3. **Display to screen “Second step: reboot your router”**
4. **repeat step 4**
5. **if the answer is yes**
   1. **Display to screen “Rebooting your router seemed to work”**
6. **(else) if the answer is no do step 11**
7. **Display to screen “Third step: make sure the cables to your router are**

**plugged in firmly and your router is getting power”**

1. **repeat step 4**
2. **if the answer is yes**
   1. **Display to screen “Checking the router's cables seemed to work”**
3. **(else) if the answer is no do step 14**
4. **Display to screen “Fourth step: move your computer closer to your**

**router”**

1. **prompt the user with the question “Are you able to connect with the**

**internet?”**

1. **repeat step 4**
2. **if the answer is yes**
   1. **Display to screen “Moving your computer seemed to work”**
3. **(else) if the answer is no do step 20**
4. **Display to screen “Fifth step: contact your ISP”**
5. **Display “Make sure your ISP is hooked up to your router.”**

**Part2: Comprehensive Test Plan**

A good test plan should be comprehensive. This means you should have a few test cases that test when the input is in and out of range, division by 0, incorrect Data type, etc (Provide valid and invalid input)

| Cases | Input | Expected Output | Actual Output | Did Test Pass? |
| --- | --- | --- | --- | --- |
| Case 1 | yes | Rebooting your computer seemed to work | Rebooting your computer seemed to work | yes |
| Case 2 | no, yes | Rebooting your router seemed to work | Rebooting your router seemed to work | yes |
| Case 3 | no, no, yes | Checking the router's cables seemed to work | Checking the router's cables seemed to work | yes |
| Case 4 | no, no, no, no | Make sure your ISP is hooked up to your router. | Make sure your ISP is hooked up to your router. | yes |

**Part3: Screenshots related to the Test Plan:**

**Case 1**

**Case 2**

**Case 3**

**Case 4**

**Lessons Learned** <Provide answers to the questions listed below>**:**

Write about your Learning Experience, highlighting your lessons learned and learning experience from working on this project.

What have you learned? I have learned about parent/child classes. I also have learned more about methods and how they interact with each other;

What did you struggle with? Mostly how to loop throw the 2d array and get the right answer.

What would you do differently on your next project? I will spend more time reading the instructions before starting the assignment.

What parts of this assignment were you successful with, and what parts (if any) were you not successful with? After spending some time working on this, I was able to correct each method; however, I need to practice how to debug.

Provide any additional resources/links/videos you used to while working on this assignment/project.

<https://www.tutorialspoint.com/How-to-read-a-2d-array-from-a-file-in-java>

<https://www.w3schools.com/java/java_files_read.asp>

**GitHub Screenshots**

**Check List:** <Provide answers to the column Y/N or N/A >**:**

| **#** |  | **Y/N or N/A** | **Comments** |
| --- | --- | --- | --- |
|  | **Assignment files:** |  |  |
|  | * FirstInitialLastName\_ Assignment5\_Moss.zip |  |  |
|  | * FirstInitialLastName\_Assignment5\_Complete.zip |  |  |
|  | **Program compiles** |  |  |
|  | **Program runs with desired outputs related to a Test Plan** |  |  |
|  | **Documentation file:** |  |  |
|  | * Comprehensive Test Plan |  |  |
|  | * Screenshots for each Junit Test |  |  |
|  | * Screenshots for each Test case listed in the Test Plan |  |  |
|  | * Screenshots of your GitHub account with submitted Assignment# (if required) |  |  |
|  | * UML Diagram |  |  |
|  | * Algorithms/Pseudocode |  |  |
|  | * Flowchart (if required) |  |  |
|  | * Lessons Learned | **yes** |  |
|  | * Checklist is completed and included in the Documentation |  |  |