**CMSC203 Assignment 1 Implementation**

Class: CMSC203 CRN 38511

 Program: Assignment #1

Instructor: Professor Grinberg

 Summary of Description: (Give a brief description for each Program).

 Due Date: 02/14/2022

 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. **Class WIFIDiagnosis**
2. **Print text that gives information about the program**
3. **Print first step**
4. **Print text asking if the problem was solved**
5. **Read user input**
6. **If user input is “No” then continue to next step Else If input is “Yes” display step 1 worked, then end the program**
7. **Print 2nd step**
8. **Print text asking if the problem was solved**
9. **Read user input**
10. **If user input is “No” then continue to next step Else If input is “Yes” display step 2 worked, then end the program**
11. **Print 3rd step**
12. **Print text asking if the problem was solved**
13. **Read user input**
14. **If user input is “No” then continue to next step Else If input is “Yes” display step 3 worked, then end the program**
15. **Print 4th step**
16. **Print text asking if the problem was solved**
17. **Read user input**
18. **If user input is “No” then continue to next step Else If input is “Yes” display step 4 worked, then end the program**
19. **Print 5th step**
20. **Print text saying make sure your ISP is hooked up to your router.**
21. **End program**

**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 | No  no  yes | Checking the router's cables seemed to work | Checking the router's cables seemed to work | yes |
| Case 2 | 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 |
| Case 3 | No  YES | Rebooting the router seemed to work | Rebooting the router seemed to work | yes |
| Case 4 | no  no  no  yes | Moving the computer closer to the router seemed to work | Moving the computer closer to the router seemed to work | yes |

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

**Case 1**

**Graphical user interface, text, application

Description automatically generated**

**Case 2**

**Graphical user interface, text, application, email

Description automatically generated**

**Case 3**

**Graphical user interface, text, application, email

Description automatically generated**

**Case 4**

**Text

Description automatically generated**

**Graphical user interface, text, application, email, website

Description automatically generated**

**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 learned how to compare strings in if statements by using “.equalsIgnoreCase”. I also learned how to effectively use the Scanner method in my program.

What did you struggle with?

I mainly struggled with trying to compare the strings that the user inputs. I tried using “if (step1Input = “yes”)” first but it didn’t work so I instead needed to use “.equals(“yes”)”. I went back to the textbook to look for examples where strings were being compared in if statements and used it as reference with this assignment.

What would you do differently on your next project?

I would study the concepts that are going to be needed to write the next project before designing it.

What parts of this assignment were you successful with, and what parts (if any) were you not successful with?

I didn’t think that I would be successful with compiling and running my program through command prompt, but I was able to do so without any error.

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| **#** |  | **Y/N** | **Comments** |
|  | **Assignment files:** |  |  |
|  | * FirstInitialLastName\_ Assignment#\_Moss.zip | **Yes** |  |
|  | * FirstInitialLastName\_Assignment#.docx/.pdf | **Yes** |  |
|  | * Source java files | **Yes** |  |
|  | **Program compiles** | **Yes** |  |
|  | **Program runs with desired outputs related to a Test Plan** | **Yes** |  |
|  | **Documentation file:** |  |  |
|  | * Comprehensive Test Plan | **Yes** |  |
|  | * Screenshots related to the Test Plan | **Yes** |  |
|  | * Screenshots of your GitHub account with submitted Assignment# (if required) | **Yes** |  |
|  | * UML Diagram (if required) | **N/A** |  |
|  | * Algorithms/Pseudocode (if required) | **Yes** |  |
|  | * Flowchart (if required) | **N/A** |  |
|  | * Lessons Learned | **Yes** |  |
|  | * Checklist is completed and included in the Documentation | **Yes** |  |