**CMSC203 Assignment 1 Implementation**

Class: CMSC203 CRN 21456

 Program: Assignment # 1

Instructor: Dr. Ahmed Tarek

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

 Due Date: 09/13/2021

 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:

**Display the name of program.**

**Prompt user for their name and ask if they’re having WiFi trouble.**

**If user says no**

**Display a message saying “Have a good day”**

**Else if the user says yes.**

**Display message saying “Reboot the computer and ask it worked.”**

**If user says yes**

**Display a message saying “Have a good day”**

**Else if the user says no**

**Display a message saying “Reboot the router and try to**

**connect and ask if it worked.”**

**If user says yes**

**Display a message saying “Have a good day”**

**Else if the user says no**

**Display a message saying “Check the cables and ask**

**if that worked.**

**If user says yes**

**Display a message saying “Have a good day”**

**Else if the user says no**

**Display a message saying “Move the computer**

**close to the router and ask if that worked”**

**If user says yes**

**Display a message saying “Have a good day”.**

**Else if the user says no**

**Display a message saying “Contact your**

**ISP”.**

**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 | Josh | Are you having trouble with your WiFi Josh ? | Are you having trouble with your WiFi Josh ? | yes |
| Case 2 | 1 | Invalid input | Invalid input | yes |
| Case 3 | yes | You're done. The WiFi is working | You're done. The WiFi is working | yes |
| Case 4 | no | Reboot the router and try to connect  Did that fix the problem? Enter yes or no. | Reboot the router and try to connect  Did that fix the problem? Enter yes or no. | 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

Description automatically generated**

**Case 3**

**Graphical user interface, text, application

Description automatically generated**

**Case 4**

**Graphical user interface, text, application

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 that there are more creative approaches to using control flow with loops. I used switch statements instead of nested conditionals and it was much easier.

What did you struggle with?

I struggled with some of the edge cases. Making sure someone can’t enter invalid input is very difficult.

What would you do differently on your next project?

I would find a way to add the first 2 questions to the while loop.

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

I was able to get all the conditionals working, but I wasn’t able to limit inputs to strings only. That wasn’t a requirement, but it’d look much cleaner without an integer.

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 or No** |  |
|  | * FirstInitialLastName\_Assignment#.docx/.pdf | **Yes or No** |  |
|  | * Source java files | **Yes or No** |  |
|  | **Program compiles** | **Yes or No** |  |
|  | **Program runs with desired outputs related to a Test Plan** | **Yes or No** |  |
|  | **Documentation file:** |  |  |
|  | * Comprehensive Test Plan | **Yes or No** |  |
|  | * Screenshots related to the Test Plan | **Yes or No** |  |
|  | * Screenshots of your GitHub account with submitted Assignment# (if required) | **Yes or No or N/A** |  |
|  | * UML Diagram (if required) | **Yes or No or N/A** |  |
|  | * Algorithms/Pseudocode (if required) | **Yes or No or N/A** |  |
|  | * Flowchart (if required) | **Yes or No or N/A** |  |
|  | * Lessons Learned | **Yes or No** |  |
|  | * Checklist is completed and included in the Documentation | **Yes or No** |  |