**CMSC203 Assignment 1 Implementation**

Class: CMSC203 CRN 24307

 Program: Assignment # 1

Instructor: Dr. Tsai

 Summary of Description: program that diagnoses problem with internet connectivity

 Due Date: 09/12/2021

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

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

Aryan Anwar

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

**1. tell user to reeboot computer, if that works exit program**

**2. if that doesnt work, tell user to reeboot router and try again, if that**

**works exit program**

**3. if that doesnt work tell user to check cables connecting router are plugged**

**in and power is getting to router, if that works exit program**

**4. if that doesnt work, tell user to move computer closer to the router, if**

**that works exit program**

**5. if all steps do not work tell user to contact isp and exit 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 | yes | program exits | program exits | yes |
| Case 2 | no, yes | program goes to second step and then exits | program goes to second step and then exits | yes |
| Case 3 | no,no,no,no,yes | program will exit on last step | program exits on last step | yes |
| Case 4 | no,no,no,no,no | program will exit on last step | program exits on last step | 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 learned how to use if statements and the scanner object to take in input and validate it with java.***

What did you struggle with?

***I didn't struggle with any part of this project as I already had prior expereience programming using if statements.***

What would you do differently on your next project?

***I wanted to use a function for validating the input but I don't know how to use functions in java.***

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

***I was successful with every part of this project.***

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

<https://stackoverflow.com/questions/40000269/syntax-error-on-token-expected-after-this-token>

**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** |  |