**CMSC203 Assignment 1 Implementation**

Class: CMSC203 CRN XXXX
Program: Assignment #1
Instructor: Grinberg
Summary of Description: Wifi diagnosis guide.
Due Date: 09/12/2022
Integrity Pledge: I pledge that I have completed the programming assignment independently. I have not copied the code from a student or any source.
Michael Bushman

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

**Import scanner**
**Create new scanner sc**
**Create String response for scanner next line**

**Display "If you have a problem with internet connectivity, this WiFi Diagnosis might work." Display "Start"**
**Display "Reboot the computer and try to connect"**
**Display "Did that fix the problem (yes or no)?"**

**Input response**

**If response equals yes**
**Display "Done"**
**Display "Programmer: Michael Bushman" System exit**

**Else if response equals no**
**Display "Reboot the router and try to connect" Display "Did that fix the problem (yes or no)?" Input response**

**If response equals yes**
**Display "Done"**
**Display "Programmer: Michael Bushman" System exit**

**If response equals no**
**Display "Make sure the cables connecting the router are firmly plugged in and power is getting to the router"**
**Display "Did that fix the problem (yes or no)?"**
**Input response**

**If response equals yes**
**Display “Done”**
**Display “Programmer: Michael Bushman” System exit**

**If response equals no**
**Display “Move the computer closer to the router and try to connect”**
**Display “Did that fix the problem (yes or no)?”**
**Input response**

**If response equals yes**
**Display “Done”**
**Display “Programmer: Michael Bushman” System exit**

**If response equals no**
**Display “Contact your ISP”**
**Display “Done”**
**Display “Programmer: Michael Bushman” System exit**

**Else**
**Display “Invalid answer, try again”**

**Else**
**Display “Invalid answer, try again”**

**Else**
**Display “Invalid answer, try again”**

**Else**
**Display “Invalid answer, try again”**

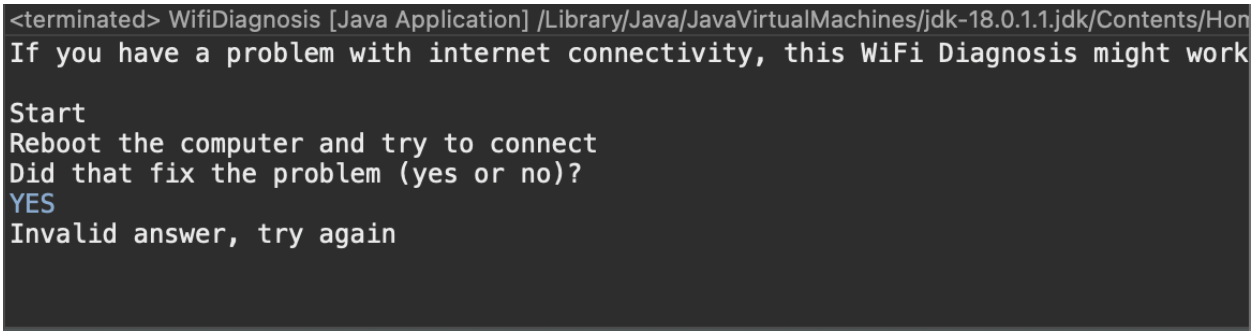
**Part2: Comprehensive Test Plan**

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)

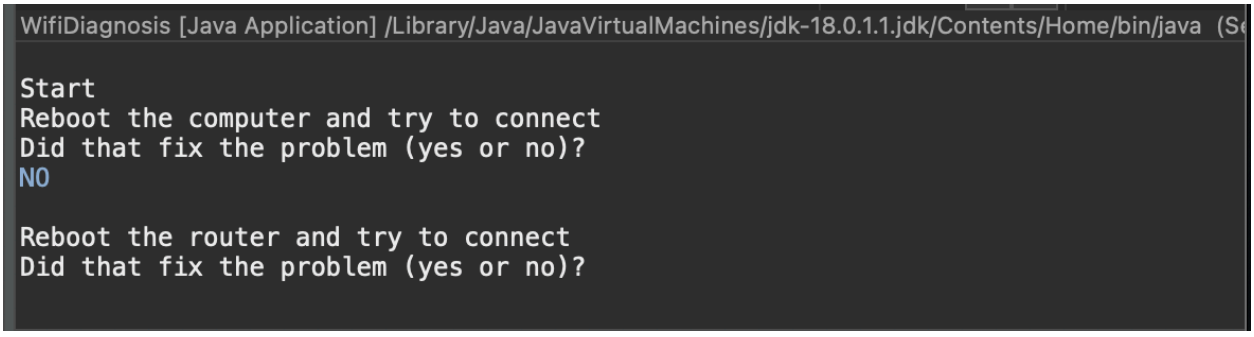
| Cases | Input | Expected Output | Actual Output | Did Test Pass? |
|---|---|---|---|---|
| Case 1 | YES to first yes or no question | Moves on to next | Doesn't accept the response with capital letters | No |
| Case 2 | NO to first yes or no question | Moves on to the next question | Moves on to the next question | Yes |
| Case 3 | YES to first yes or no question | Says, done, the programmers name and ends the program | Says, done, the programmers name and ends program | Yes |
| Case 4 | Help into the first question | Says invalid answer, try again | Says invalid answer, try again | Yes |

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

**Case 1**




**Case 2**

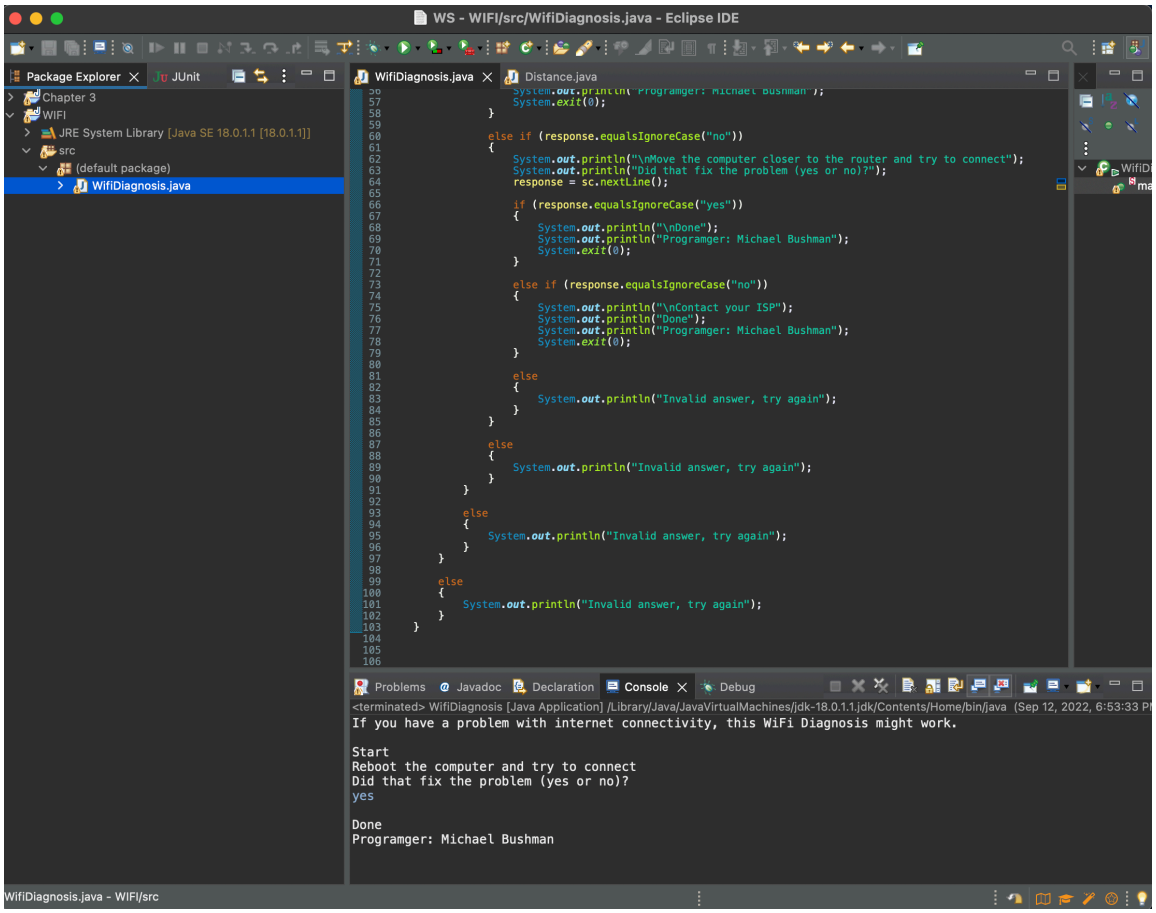


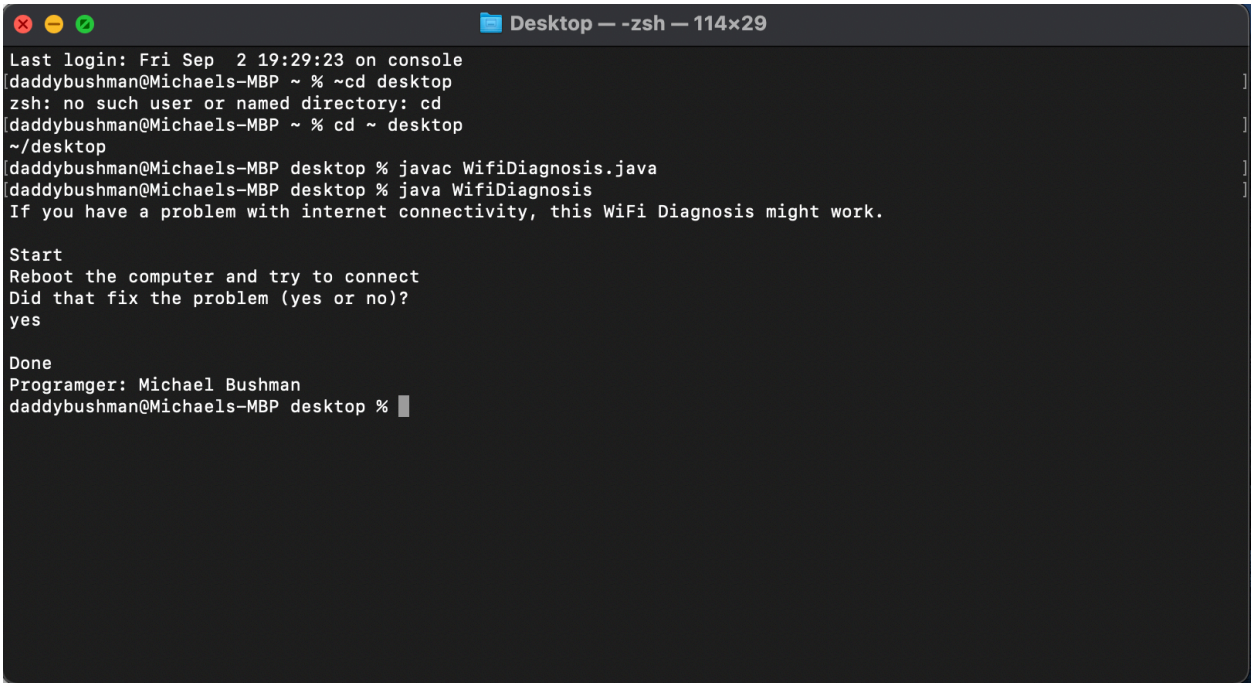
## Case 3

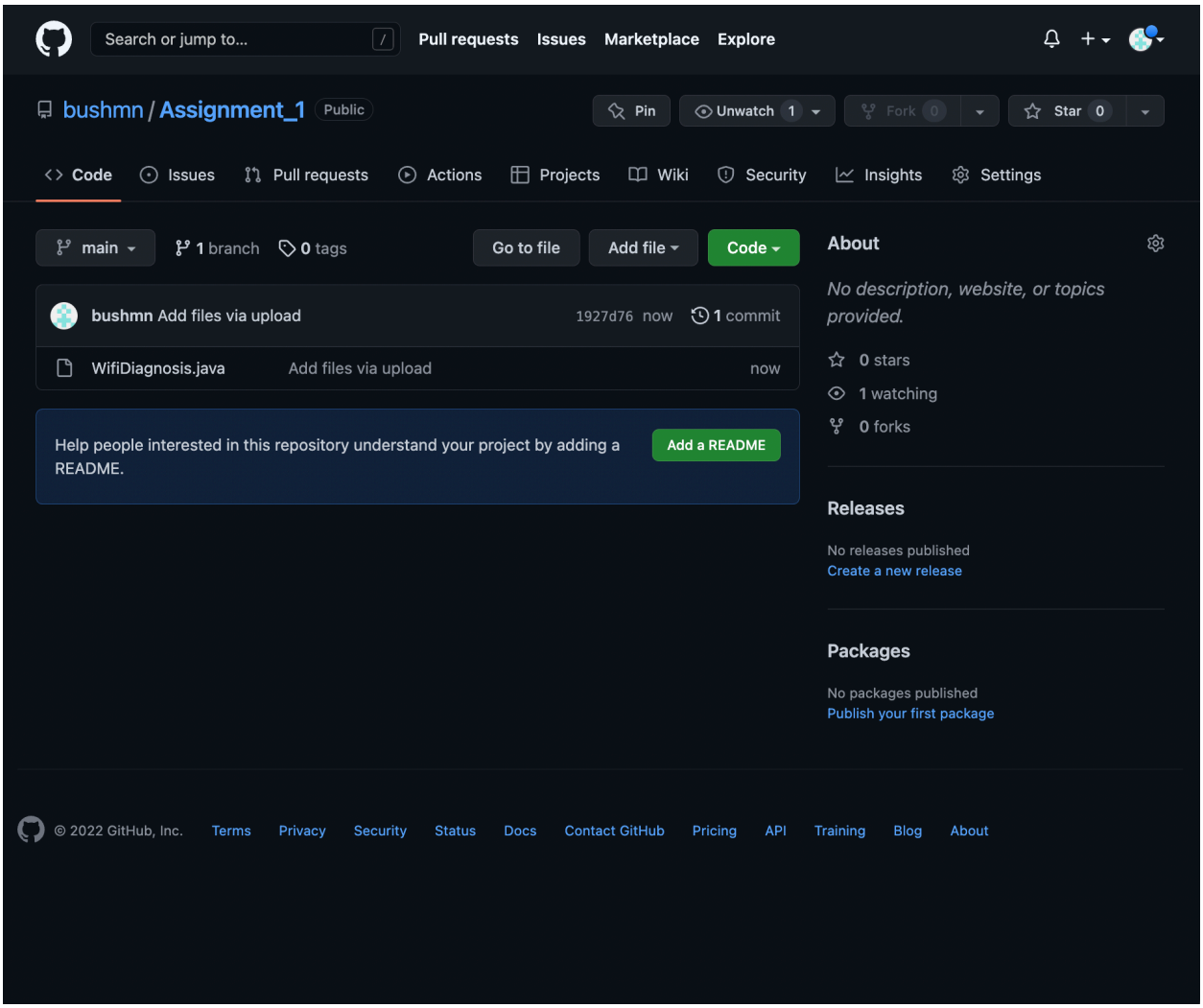
```
<terminated> WifiDiagnosis [Java Application] /Library/Java/JavaVirtualMachines/jdk-18.0.1.1.jdk/Contents/Hon

Start
Reboot the computer and try to connect
Did that fix the problem (yes or no)?
YES

Done
Programger: Michael Bushman
```

## Case 4

```
<terminated> WifiDiagnosis [Java Application] /Library/Java/JavaVirtualMachines/jdk-18.0.1.1.jdk/Contents/Hon
If you have a problem with internet connectivity, this WiFi Diagnosis might work

Start
Reboot the computer and try to connect
Did that fix the problem (yes or no)?
Help
Invalid answer, try again
```




Desktop — -zsh — 114×29
Last login: Fri Sep 2 19:29:23 on console
daddybushman@Michaels-MBP ~ % ~cd desktop
zsh: no such user or named directory: cd
daddybushman@Michaels-MBP ~ % cd ~ desktop
~/desktop
daddybushman@Michaels-MBP desktop % javac WifiDiagnosis.java
daddybushman@Michaels-MBP desktop % java WifiDiagnosis
If you have a problem with internet connectivity, this WiFi Diagnosis might work.
Start
Reboot the computer and try to connect
Did that fix the problem (yes or no)?
yes
Done
Programger: Michael Bushman
daddybushman@Michaels-MBP desktop %


Search or jump to...
Pull requests
Issues
Marketplace
Explore
bushmn / Assignment_1
Public
Pin
Unwatch 1
Fork 0
Star 0
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
main
1 branch
0 tags
Go to file
Add file
Code
bushmn Add files via upload
1927d76 now
1 commit
WifiDiagnosis.java
Add files via upload
now
Help people interested in this repository understand your project by adding a README.
Add a README
About
No description, website, or topics provided.
0 stars
1 watching
0 forks
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package
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**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 to get comfortable with nested if and else if statements. I have gotten comfortable with understand which code belong to which if and else statements. I also learned the easiest way to ignore capitalized or lowercase letters is to use equalsIgnoreCase.

What did you struggle with? I struggled with some issues on the invalid response. At first, I didn't put enough else statements at the end to account for any incorrect answers down the guide. Once I added all the else statements in, I was success in capturing incorrect responses.

What would you do differently on your next project? Instead of having so many else and else if statements, I would try to figure out a way to break it down more simply. My way works but it's ugly to look at.

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

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** | **Y** |
| | • FirstInitialLastName_Assignment#.docx/.pdf | **Yes or No** | **Y** |
| | • Source java files | **Yes or No** | **Y** |
| | **Program compiles** | **Yes or No** | **Y** |
| | **Program runs with desired outputs related to a Test Plan** | **Yes or No** | **Y** |
| | **Documentation file:** | | **Y** |
| | • Comprehensive Test Plan | **Yes or No** | **Y** |
| | • Screenshots related to the Test Plan | **Yes or No** | **Y** |

| | | | |
|---|---|---|---|
| | • Screenshots of your GitHub account with submitted Assignment# (if required) | **Yes or No or N/A** | **Y** |
| | • UML Diagram (if required) | **Yes or No or N/A** | **N/A** |
| | • Algorithms/Pseudocode (if required) | **Yes or No or N/A** | **Y** |
| | • Flowchart (if required) | **Yes or No or N/A** | **Y** |
| | • Lessons Learned | **Yes or No** | **Y** |
| | • Checklist is completed and included in the Documentation | **Yes or No** | Y |