CMSC203 Assignment 2 Implementation (Documentation)

Class: CMSC203 CRN 40438 Program: Assignment #2 Instructor: Dr. Grinberg

Summary of Description: This program displays a patient's full information: their full name, full address, and the name and phone number of their emergency contact, and then displays the three different procedures they underwent: the procedure's name, date, practitioner's name, and cost.

Due Date: 07/03/2023

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

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

Even Estifanos

Part1: Pseudo Code: Here is a pseudo code for Assignment 2 program:

Start the tester class (PatientDriverApp class)

Create an instance object of the patient class with self-made attributes

Create three instance objects of the procedure class with given attributes

Display patient's info using instance methods of patient class

Display the patient's name by using getName()

Display the address of the patient by using getAddress()

Display the city of the patient by using getCity()

Display the state of patient by using getState()

Display the zip code of patient by using getZip()

Display the emergency contact name and their phone using getERContact()

Display patient's 1st procedure info using instance methods of procedure class

Display the name by using getName()

Display the date by using getDate()

DIsplay the practitioner by using getPracititioner()

Display the charges by using getcost()

Display patient's 2nd procedure info using instance methods of procedure class

Display the name by using getName()

Display the date by using getDate()

DIsplay the practitioner by using getPracititioner()

Display the charges by using getcost()

Display patient's 3rd procedure info using instance methods of procedure class

Display the name by using getName()

Display the date by using getDate()

DIsplay the practitioner by using getPracititioner()

Display the charges by using getcost()

Display the total charge by summing the three costs together

Display Student name

Display Student MC ID

Display due date

End tester class (PatientDriverApp class)

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)

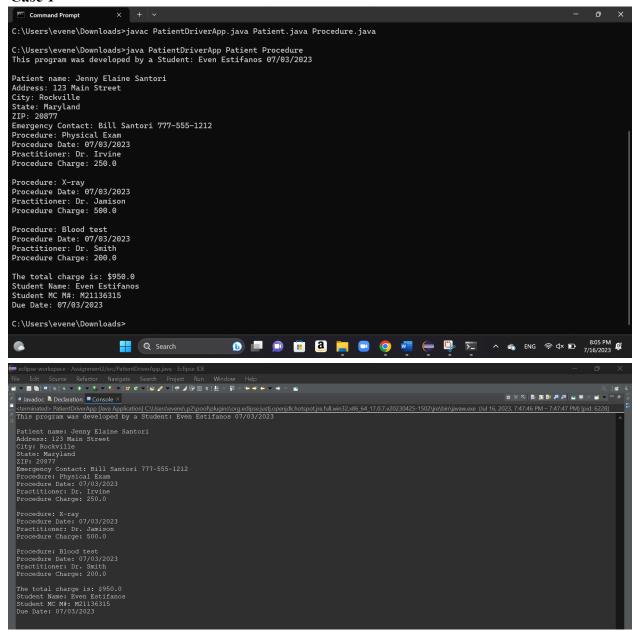
invalid input)								
Cases	Input	Expected Output	Actual Output	Pass?				
Case	Patient name: Jenny	Patient name: Jenny	Patient name: Jenny	Yes				
1	Elaine Santori	Elaine Santori	Elaine Santori					
	Address: 123 Main	Address: 123 Main	Address: 123 Main					
	Street	Street	Street					
	City: Rockville	City: Rockville	City: Rockville					
	State: Maryland	State: Maryland	State: Maryland					
	ZIP: 20877	ZIP: 20877	ZIP: 20877					
	Emergency Contact:	Emergency Contact:	Emergency Contact:					
	Bill Santori	Bill Santori	Bill Santori					
	777-555-1212	777-555-1212	777-555-1212					
	Procedure: Physical	Procedure: Physical	Procedure: Physical					
	Exam	Exam	Exam					
	Procedure Date:	Procedure Date:	Procedure Date:					
	07/03/2023	07/03/2023	07/03/2023					
	Practitioner: Dr. Irvine	Practitioner: Dr. Irvine	Practitioner: Dr. Irvine					
	Procedure Charge:	Procedure Charge:	Procedure Charge:					
	250.0	250.0	250.0					
	Procedure: X-ray	Procedure: X-ray	Procedure: X-ray					
	Procedure Date:	Procedure Date:	Procedure Date:					
	07/03/2023	07/03/2023	07/03/2023					
	Practitioner: Dr.	Practitioner: Dr.	Practitioner: Dr.					
	Jamison	Jamison	Jamison					
	Procedure Charge:	Procedure Charge:	Procedure Charge:					
	500.0	500.0	500.0					
	Procedure: Blood test	Procedure: Blood test	Procedure: Blood test					
	Procedure Date:	Procedure Date:	Procedure Date:					
	07/03/2023	07/03/2023	07/03/2023					
	Practitioner: Dr. Smith	Practitioner: Dr. Smith	Practitioner: Dr. Smith					
	Procedure Charge:	Procedure Charge:	Procedure Charge:					
	200.0	200.0	200.0					
		The total charge is:	The total charge is:					
		\$950.0	\$950.0					
Case	Patient name: Jenny	Invalid Error: Invalid	Invalid Error: Invalid	Yes				
2	Elaine Santori	Data type. (Procedure	Data type. (Procedure					
	Address: 123 Main	costs should be int or	costs should be int or					
	Street	double, not char as	double, not char as					
	City: Rockville	shown in input)	shown in input)					
	State: Maryland							
	ZIP: 20877							

		T	T	
	Emergency Contact:			
	Bill Santori			
	777-555-1212			
	Procedure: Physical			
	Exam			
	Procedure Date:			
	07/03/2023			
	Practitioner: Dr. Irvine			
	Procedure Charge:			
	'250.0'			
	Procedure: X-ray			
	Procedure Date:			
	07/03/2023			
	Practitioner: Dr.			
	Jamison			
	Procedure Charge:			
	'500.0'			
	Procedure: Blood test			
	Procedure Date:			
	07/03/2023			
	Practitioner: Dr. Smith			
	Procedure Charge:			
	'200.0'			
Case	Patient name: Jenny	Patient name: Jenny	Patient name: Jenny	Yes
3	Elaine Santori	Elaine Santori	Elaine Santori	
	Address: 123 Main	Address: 123 Main	Address: 123 Main	
	Street	Street	Street	
	City: Rockville	City: Rockville	City: Rockville	
	State: Maryland	State: Maryland	State: Maryland	
	ZIP: 20877	ZIP: 20877	ZIP: 20877	
	Emergency Contact:	Emergency Contact:	Emergency Contact:	
1				
1	Bill Santori	Bill Santori	Bill Santori	
	Bill Santori 777-555-1212	Bill Santori 777-555-1212	Bill Santori 777-555-1212	
	777-555-1212	777-555-1212	777-555-1212	
	777-555-1212 Procedure: Physical	777-555-1212 Procedure: Physical	777-555-1212 Procedure: Physical	
	777-555-1212 Procedure: Physical Exam	777-555-1212 Procedure: Physical Exam	777-555-1212 Procedure: Physical Exam	
	777-555-1212 Procedure: Physical Exam Procedure Date:	777-555-1212 Procedure: Physical Exam Procedure Date:	777-555-1212 Procedure: Physical Exam Procedure Date:	
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	777-555-1212 Procedure: Physical Exam Procedure Date: 07/03/2023 Practitioner: Dr. Irvine Procedure Charge: 250.0/0	777-555-1212 Procedure: Physical Exam Procedure Date: 07/03/2023 Practitioner: Dr. Irvine Procedure Charge: Infinity	777-555-1212 Procedure: Physical Exam Procedure Date: 07/03/2023 Practitioner: Dr. Irvine Procedure Charge: Infinity	
	777-555-1212 Procedure: Physical Exam Procedure Date: 07/03/2023 Practitioner: Dr. Irvine Procedure Charge: 250.0/0 Procedure: X-ray	777-555-1212 Procedure: Physical Exam Procedure Date: 07/03/2023 Practitioner: Dr. Irvine Procedure Charge: Infinity Procedure: X-ray	777-555-1212 Procedure: Physical Exam Procedure Date: 07/03/2023 Practitioner: Dr. Irvine Procedure Charge: Infinity Procedure: X-ray	
	777-555-1212 Procedure: Physical Exam Procedure Date: 07/03/2023 Practitioner: Dr. Irvine Procedure Charge: 250.0/0 Procedure: X-ray Procedure Date:	777-555-1212 Procedure: Physical Exam Procedure Date: 07/03/2023 Practitioner: Dr. Irvine Procedure Charge: Infinity Procedure: X-ray Procedure Date:	777-555-1212 Procedure: Physical Exam Procedure Date: 07/03/2023 Practitioner: Dr. Irvine Procedure Charge: Infinity Procedure: X-ray Procedure Date:	

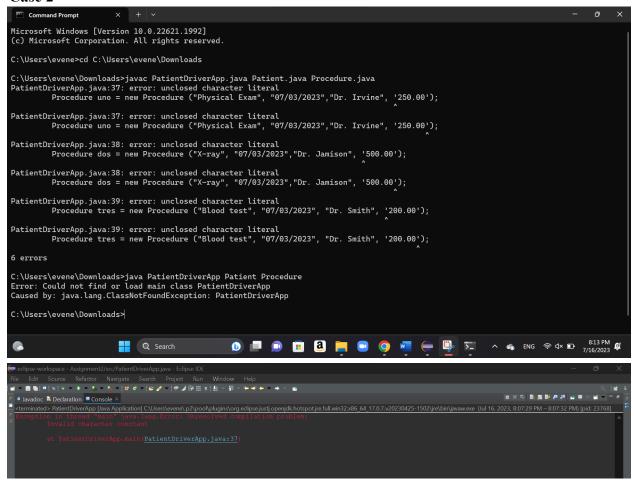
Procedure Charge: Procedure Charge: Procedure Charge: 500.0/0 Infinity Infinity Procedure: Blood test Procedure: Blood test Procedure: Blood test Procedure Date: Procedure Date: Procedure Date: 07/03/2023 07/03/2023 07/03/2023 Practitioner: Dr. Smith Practitioner: Dr. Smith Practitioner: Dr. Smith Procedure Charge: Procedure Charge: Procedure Charge: 200.0/0 Infinity Infinity The total charge is: The total charge is: \$Infinity \$Infinity Student Name: Even Student Name: Even Estifanos Estifanos Student MC M#: Student MC M#: M21136315 M21136315 Due Date: 07/03/2023 Due Date: 07/03/2023

Part3: Screenshots related to the Test Plan:

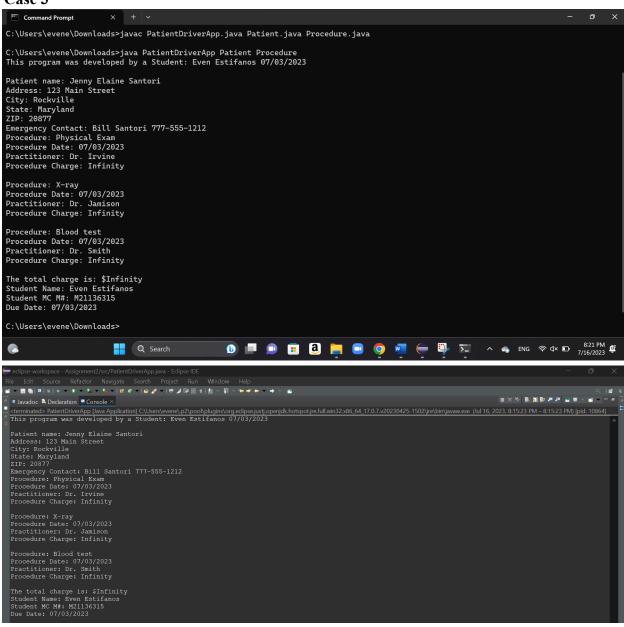
Case 1



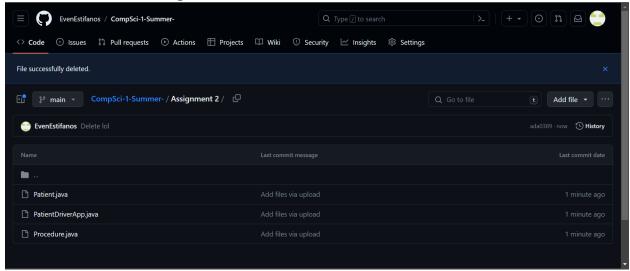
Case 2



Case 3



Github Screenshot of assignment 2



Lessons Learned < Provide answers to the questions listed above >:

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

What have you learned?

• Learned how to create classes, and use instance methods and variables. I also learned that there is ways to play around with the test cases and record different responses through the use of the test plan

What did you struggle with?

 Pseudocode - It was difficult to come up with ways to describe certain actions and designing it first was hard

What would you do differently on your next project?

• Submit the assignment on time. I was late so I would probably manage my time better and submit assignment promptly

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

• Successful with the coding part, unsuccessful/struggled with the design part

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

Check List: \leq Provide answers to the column Y/N or N/A \geq :

#		Y/N	Comments
1.	Assignment files:		
	• FirstInitialLastName_ Assignment#_Moss.zip	Yes or No	Yes
	 FirstInitialLastName Assignment#.docx/.pdf 	Yes or No	Yes
	Source java files	Yes or No	Yes
2.	Program compiles	Yes or No	Yes
3.	Program runs with desired outputs related to a	Yes or No	Yes
	Test Plan		
4.	Documentation file:		
	 Comprehensive Test Plan 	Yes or No	Yes
	 Screenshots related to the Test Plan 	Yes or No	Yes
	 Screenshots of your GitHub account with 	Yes or No or N/A	Yes
	submitted Assignment# (if required)		
	 UML Diagram (if required) 	Yes or No or N/A	N/A
	 Algorithms/Pseudocode (if required) 	Yes or No or N/A	Yes
	• Flowchart (if required)	Yes or No or N/A	N/A
	Lessons Learned	Yes or No	Yes
	Checklist is completed and included in the Documentation	Yes or No	Yes