**CMSC203 Assignment 2 Design**

Class: CMSC203 CRN 21575

 Program: Assignment #2

Instructor: Grigoriy Grinberg

 Summary of Description: This program will use objects and constructors to display the information of a patient, their procedures, and the cost of the procedures.

 Due Date: 09/18/2023

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

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

Name: Ema Gomez

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

**Patient.java**

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**\* Class: CMSC203**

**\* Instructor: Grigoriy Grinberg**

**\* Description: (Give a brief description for each Class)**

**\* Due: 09/25/2023**

**\* Platform/compiler: Eclipse**

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**\* from a student or any source. I have not given my code**

**\* to any student. Print your Name here: Ema Gomez**

**\*/**

**Make a String variable named firstName**

**Make a String variable named middleName**

**Make a String variable named lastName**

**Make a String variable named streetAddress**

**Make a String variable named city**

**Make a String variable named state**

**Make a String variable named zipCode**

**Make a String variable named phoneNumber**

**Make a String variable named emergencyContact**

**Make a String variable named emergencyPhone**

**Make a no-arg constructor**

**Make a constructor with the parameters String firstName, String middleName, and String lastName**

**Make a constructor with all the parameters including String firstName, String middleName, String lastName, String streetAddress, String city, String state, String zipCode, String phoneNumber, String emergencyContact, and String emergencyPhone.**

**Create an accessor for firstName**

**Create an accessor for middleName**

**Create an accessor for lastName**

**Create an accessor for streetAddress**

**Create an accessor for city**

**Create an accessor for state**

**Create an accessor for zipCode**

**Create an accessor for phoneNumber**

**Create an accessor for emergencyContact**

**Create an accessor for emergencyPhone**

**Create an mutator for firstName**

**Create an mutator for middleName**

**Create an mutator for lastName**

**Create an mutator for streetAddress**

**Create an mutator for city**

**Create an mutator for state**

**Create an mutator for zipCode**

**Create an mutator for phoneNumber**

**Create an mutator for emergencyContact**

**Create an mutator for emergencyPhone**

**Create a public String method called buildFullName**

**Returns firstName + “ ” + middleName + “ ” + lastName**

**Create a public String method called buildAddress**

**Returns streetAddress + “ ” + city + “ ” + state + “ ” + zipCode**

**Create a public String method called buildEmergencyContact**

**Returns emergencyContact + “ ” + emergencyPhone**

**Create a toString method**

**Print full name using buildFullName method**

**Print full address using buildAddress method**

**Print phoneNumber**

**Print emergency contact information using buildEmergencyContact method**

**Procedure.java**

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**Make a String variable named procedureName**

**Make a String variable named procedureDate**

**Make a String variable named practitioner**

**Make a double variable named charge**

**Make a constructor with the parameters String procedureName and String procedureDate**

**Make a constructor with the parameters String procedureName, String procedureDate, String practitioner, and double charge.**

**Create an accessor for procedureName**

**Create an accessor for procedureDate**

**Create an accessor for practitioner**

**Create an accessor for charge**

**Create an mutator for procedureName**

**Create an mutator for procedureDate**

**Create an mutator for practitioner**

**Create an mutator for charge**

**Create a toString method**

**Println procedureName**

**Println procedureDate**

**Println practitioner**

**Println charge**

**PatientDriverApp.java**

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**Create patient object**

**Create default procedure object**

**Create second constructor procedure object**

**Create third constructor procedure object**

**Create a displayPatient method**

**Print patient’s information**

**Create a displayProcedure method**

**Print procedure’s information**

**Create a public double calculateTotalCharges method**

**Return total charges of procedures**