 Program: Assignment 2

Instructor: Ahmed Tahrek

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

 Due Date: MM/DD/YYYY

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

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

**Pseudocode:**

**Start**

**Declarations:**

**String name**

**String MC\_ID**

**String Due\_Date**

**Double total**

**Class Patient**

**Declarations**

**Private String Fname**

**Private String Lname**

**Private String Mnane**

**Private String Street**

**Private String city**

**Private String state**

**Private String ZIP**

**Private String Phone\_num**

**Private String emergencyName**

**Prviate String emergency\_num**

**Public String getFirstName()**

**Return Fname**

**Public String getLastName()**

**Return Lname**

**Public String getMidName()**

**Return Mname**

**Public String getStreet()**

**Return Street**

**Public String getCity()**

**Return City**

**Public String GetState()**

**Return State**

**Public String GetZIP()**

**Return ZIP**

**Public String Phone\_num()**

**Return Phone\_num**

**Public String emergencyName()**

**Return emergencyName**

**Public String emergency\_num()**

**Return emergency\_num**

**Public Void DisplayPatient()**

**Print(“Patient Info”)**

**Print (“Name: “ + getFirstName() + “ “**

**+ getMidName() + “ “ + getLastName())**

**Print (“Address: “ + getStreet() + “ “ + getCity**

**+ “ “ + getState()+ “ “ + getZIP())**

**Print (“Emergency Contact: “ + getEmergency\_num() + “ “ + getEmergencyName())**

**Print newline**

**EndClass**

**Class Procedure**

**Declaration**

**Private String Date**

**Private String practitioner**

**Private String procedure**

**Private double charge**

**Public string getDate()**

**Return Date**

**Public String getPractitioner()**

**Return practitioner**

**Public String getProcedure()**

**Return procedure**

**Public double getCharge()**

**Return charge**

**Public void DisplayProcedure()**

**Print(“Procedure: “ + getProcedure())**

**Print(“Practitioner: “ + getPractitioner())**

**Print (“Date: “ + getDate())**

**Print(“Charge: “ + getCharge())**

**Print newline**

**EndClass**

**Create new Patient Object patient**

**Create new Procedure Object HRT\_Surgery**

**Create new Procedure Object BNE\_TRNSPLNT**

**Create new Procedure Object RAD\_THERAPY**

**Patient.DisplayPatient()**

**Print newline**

**HRT\_TRNSPLNT.DisplayProcedure()  
BNE\_TRNSPLNT.DisplayProcedure()**

**RAD\_THRPY.DisplayProcedure()**

**Print(“Procedure: “ + RAD\_THRPY.getProcedure())**

**Print(“Practitioner: “ + RAD\_THRPY.getPractitioner())\_**

**Print(“Procedure Date: “ + RAD\_THRPY.getDate())**

**Print(“Charge: “ + RAD\_THRPY.getCharge())**

**Print newline**

**Sum (HRT\_Surgery.getCharge() + BNE\_TRNSPLNT.getCharge() + RAD\_THRPY.getCharge()) stored into total.**

**Print (“This was created by” + “name “ + Due\_Date)**

**UML**

A screenshot of a computer

Description automatically generated

A blue screen with text

Description automatically generated

**Lesson Learned:** This assignment helped me understand how to create classes in Java. I initially struggled with tying everything together. What I also struggled mostly with was creating a method that called all the charges of the different varying classes together to create a sum total. On the next assignment, I will use a UML and create a better pseudocode draft to assist me with these challenging assignments.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Input** |  | **Expected Output** | **Actual Output** | **Did the test pass?** |
| 1 | Kenny C Carlton  Boom Bap St, Orange County, FL, 23531  202-357-3283  Stevie James  James Bong  62330.42  Garisonson Ging  43454.24  Parley James  4941.32 |  | Kenny C Carlton  Boom Bap St, Orange County, FL, 23531  202-357-3283  Stevie James  James Bong  62330.42  Garisonson Ging  43454.24  Parley James  4941.32  Total Charge: 110725.9 | Kenny C Carlton  Boom Bap St, Orange County, FL, 23531  202-357-3283  Stevie James  James Bong  62330.42  Garisonson Ging  43454.24  Parley James  4941.32  Total Charge: 110725.9 | Y |
| 2 | James C Kennedy  Roanoake Street Bethesda MD 20901  202-357-3283 Bramble Barbie  Heart Surgery  Kim Wow  10/29/23  6020.42  Bone Transplant  Kim Kong  10/30/23  4954.24  Radiation Therapy  Stanley White  10/31/23  4941.32 |  | James C Kennedy  Roanoake Street Bethesda MD 20901  202-357-3283 Bramble Barbie  Heart Surgery  Kim Wow  10/29/23  6020.42  Bone Transplant  Kim Kong  10/30/23  4954.24  Radiation Therapy  Stanley White  10/31/23  4941.32  Total Charge: 15932.98 | James C Kennedy  Roanoake Street Bethesda MD 20901  202-357-3283 Bramble Barbie  Heart Surgery  Kim Wow  10/29/23  6020.42  Bone Transplant  Kim Kong  10/30/23  4954.24  Radiation Therapy  Stanley White  10/31/23  4941.32  Total Charge: 15932.98 | Y |
| 3 |  |  |  |  |  |
|  |  |  |  |  |  |

A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generated