**QUESTION 2**

/\*

d=days

dr = daily rate

md = medication charges

serv = service charges

\*/

#include <iostream>

using namespace std;

void getData();

void printTotal(int d, double dr, double md, double serv);

void printTotal(double md, double serv);

void getData()

{

char choice;

int d;

double dr, md, serv;

cout << "Was patient admitted as an in-patient or out-patient?"<<endl;

cout<< "Enter (I) for in-patient\nEnter (O) for out-patient\n";

cin >> choice;

if(choice == 'I' || choice == 'i')

{

cout << "How many days were spent in the hospital? ";

cin >> d;

while (d<=0)

{

cout<<"\*\*\*INVAILD ENTRY!!! DAYS CAN NOT BE NEGATIVE OR ZERO!!!\*\*\*"<<endl;

cout << "How many days were spent in the hospital? ";

cin >> d;

}

cout << "What was the daily rate? ";

cin >> dr;

while (dr<0)

{

cout<<"\*\*\*INVAILD ENTRY!!! DAILY RATE CAN NOT BE NEGATIVE!!!\*\*\*"<<endl;

cout << "What was the daily rate? ";

cin >> dr;

}

cout << "Enter the charges for hospital services (lab tests, etc.): ";

cin >> serv;

while (serv<0)

{

cout<<"\*\*\*INVAILD ENTRY!!! SERVICE CHARGES CAN NOT BE NEGATIVE!!!\*\*\*"<<endl;

cout << "Enter the charges for hospital services (lab tests, etc.): ";

cin >> serv;

}

cout << "Enter the hospital medication medication charges: ";

cin >> md;

while (md<0)

{

cout<<"\*\*\*INVAILD ENTRY!!! MEDICATION CHARGES CAN NOT BE NEGATIVE!!!\*\*\*"<<endl;

cout << "Enter the hospital medication medication charges: ";

cin >> md;

}

cout<< " Patient hospital stay report "<<endl;

cout<<"---------------------------------------------------"<<endl;

cout<<"Number of days spent in the hospital:\t"<<d<<endl;

cout<<"Daily Rate :\t$\t"<<dr<<endl;

cout<<"Charges for hospital services :\t$\t"<<serv<<endl;

cout<<"Hospital medication charges :\t$\t"<<md<<endl;

printTotal(d, dr, md, serv);

}

else if (choice == 'O' || choice =='o')

{

cout << "What are the medication charges? ";

cin >> md;

while (md<0)

{

cout<<"\*\*\*INVAILD ENTRY!!! MEDICATION CHARGES CAN NOT BE NEGATIVE!!!\*\*\*"<<endl;

cout << "What are the medication charges? ";

cin >> md;

}

cout << "What are the services charges? ";

cin >> serv;

while (serv<0)

{

cout<<"\*\*\*INVAILD ENTRY!!! SERVICE CHARGES CAN NOT BE NEGATIVE!!!\*\*\*"<<endl;

cout << "What are the services charges? ";

cin >> serv;

}

cout<< " Patient hospital stay report "<<endl;

cout<<"---------------------------------------------------"<<endl;

cout<<"Charges for hospital services :\t$\t"<<serv<<endl;

cout<<"Hospital medication charges :\t$\t"<<md<<endl;

printTotal(md, serv);

}

else

{

cout<<"Invalid ENTRY"<<endl;

getData();

}

}

void printTotal(int d, double dr, double md, double serv)

{

cout << "Total charges :\t$\t" << (d\*dr) + md + serv <<endl;

}

void printTotal(double md, double serv)

{

cout << "Total charges :\t$\t" << md + serv <<endl;

}

int main()

{

cout<< "This program computes and displays a patients hospital charges"<<endl;

cout<< "--------------------------------------------------------------"<<endl;

getData();

return 0;

}