#include <iostream>

using namespace std;

struct Note {

int five\_note;

int two\_note;

};

struct Coin {

int two\_coin;

int one\_coin;

double fiftyCents\_coin;

double twentyfifeCents\_coin;

double tenCents\_coin;

};

int main()

{

//Programm variables

int counter\_option;

int note\_total;

double coin\_total;

double note\_and\_coin\_total;

//objects from structure

Note User\_Note;

Coin User\_Coin;

cout << "MSU PRIVATE BANKING COIN COUNTER\n\n";

cout << "Select Counter from the ones listed below: \n";

cout << " 1. Note Counter\n 2. Coin Counter\n 3. Note and Coin Counter\n\n";

cin >> counter\_option;

//A Swicth Statement can also be used for these options

if (counter\_option == 1) {

cout << "NOTE COUNTER\n\n";

cout << "Enter The number of $5 Notes: ";

cin >> User\_Note.five\_note;

cout << "Enter The number of $2 Notes: ";

cin >> User\_Note.two\_note;

note\_total = ((User\_Note.five\_note \* 5) + (User\_Note.two\_note \* 2));

cout << "Your Total is: $" << note\_total << endl;

}

else if(counter\_option == 2){

cout << "Coin Counter\n\n";

cout << "Enter The Number Of $2 Coins: ";

cin >> User\_Coin.two\_coin;

cout << "Enter The Number Of $1 Coins: ";

cin >> User\_Coin.one\_coin;

cout << "Enter The Number Of $0.50 Coins: ";

cin >> User\_Coin.fiftyCents\_coin;

cout << "Enter The Number Of $0.25 Coins: ";

cin >> User\_Coin.twentyfifeCents\_coin;

cout << "Enter The Number Of $0.10 Coins: ";

cin >> User\_Coin.tenCents\_coin;

coin\_total = ((User\_Coin.two\_coin \* 2) + (User\_Coin.one\_coin \* 1) + (User\_Coin.fiftyCents\_coin \* 0.50) + (User\_Coin.twentyfifeCents\_coin \* 0.25) + (User\_Coin.tenCents\_coin \* 0.10));

cout << "Your Total Is: $" << coin\_total;

}

else if(counter\_option == 3){

cout << "Note and Coin Counter\n\n";

cout << "Notes\nEnter The number of $5 Notes: ";

cin >> User\_Note.five\_note;

cout << "Enter The number of $2 Notes: ";

cin >> User\_Note.two\_note;

cout << "Coins\nEnter The Number Of $2 Coins: ";

cin >> User\_Coin.two\_coin;

cout << "Enter The Number Of $1 Coins: ";

cin >> User\_Coin.one\_coin;

cout << "Enter The Number Of $0.50 Coins: ";

cin >> User\_Coin.fiftyCents\_coin;

cout << "Enter The Number Of $0.25 Coins: ";

cin >> User\_Coin.twentyfifeCents\_coin;

cout << "Enter The Number Of $0.10 Coins: ";

cin >> User\_Coin.tenCents\_coin;

note\_and\_coin\_total = ((User\_Note.five\_note \* 5) + (User\_Note.two\_note \* 2) + (User\_Coin.two\_coin \* 2) + (User\_Coin.one\_coin \* 1) + (User\_Coin.fiftyCents\_coin \* 0.50) + (User\_Coin.twentyfifeCents\_coin \* 0.25) + (User\_Coin.tenCents\_coin \* 0.10));

cout << "Your Total Is: $" << note\_and\_coin\_total;

}

else {

cout << "Kindly Enter Option Value from the Ones above eg. 1";

}

}