#include<iostream>

#include<stdlib.h>

#include<conio.h>

#include<windows.h>

#include<bits/stdc++.h>

#include<ctype.h>

using namespace std;

class casino

{

private:

char player\_name[20];

double initial\_amount;

double bet\_amount;

int bet\_choice1;

int bet\_choice2;

int numberOnWheel;

int bet\_number[4];

public:

void entry();

///Functions for roulette///

void roulette();

void rou\_rules();

void rou\_option();

void rou\_outsideBet();

void rou\_insideBet();

void rou\_betDetails(int);

int rou\_spinningWheel();

double rou\_winCondition(int);

};

void casino::entry()

{

cout<<"Enter the name: ";

gets(player\_name);

player\_name[0] = toupper(player\_name[0]);

cout<<"\nEnter the initial deposit: ";

cin>>initial\_amount;

}

void casino::rou\_option()

{

gameplay:

system("CLS");

cout<<"\t\t Types of bet: ";

cout<<"\n\t1. Outside Bet";

cout<<"\n\t2. Inside Bet";

cout<<"\n\tEnter the type of bet you want to play (1 or 2): ";

cin>>bet\_choice1;

if( bet\_choice1 == 1)

{

rou\_outsideBet();

}

else if( bet\_choice1 == 2)

{

rou\_insideBet();

}

else

{

cout<<"\n\tWrong choice";

cout<<"\n\tEnter again";

system("PAUSE");

goto gameplay;

}

}

void casino::rou\_betDetails(int numberOfBets)

{

startingOfBet:

cout<<"\nEnter the amount you want to bet for: ";

cin>>bet\_amount;

if( bet\_amount > initial\_amount )

{

cout<<"\nYou don't have enough money to bet ";

cout<<"\nTry again ";

goto startingOfBet;

}

cout<<"\nEnter "<<numberOfBets<<" number you want to bet on: ";

for( int i=1; i<=numberOfBets; i++ )

{

cin>>bet\_number[i];

if( bet\_number[i] > 36 && bet\_number[i] <0)

{

cout<<"Invalid number";

cout<<"Enter again";

goto startingOfBet;

}

}

numberOnWheel = rou\_spinningWheel();

cout<<numberOnWheel;

}

double casino::rou\_winCondition(int numberOfBets)

{

double bet\_totalAmount=0;

int winner=0;

for( int win=1; win<=numberOfBets; win++)

{

if( bet\_number[win] == numberOnWheel )

{

bet\_totalAmount += 2 \* bet\_amount;

winner = 1;

}

}

if( winner == 1)

{

cout<<"You won "<<bet\_totalAmount;

initial\_amount += bet\_totalAmount;

}

else

{

cout<<"\nBetter luck next time";

initial\_amount -= bet\_amount;

}

return bet\_totalAmount;

}

void casino::rou\_outsideBet()

{

cout<<"\n\tTypes of Outside Bet";

cout<<"\n\t1. Red or Black \n\t2. Even or Odd \n\t3. Dozen or Column \n\t4. Low or High ";

cout<<"\n\tEnter your bet (1 , 2 , 3 or 4): ";

cin>>bet\_choice2;

}

void casino::rou\_insideBet()

{

cout<<"\n\tTypes of Inside Bet";

cout<<"\n\t1. One or Straight \n\t2. Two or Split \n\t3. Trio or Three \n\t4. Square or Four \n\t5. Five \n\t6. Six ";

cout<<"\n\tEnter your bet (1 , 2 , 3 or 4) ";

insideBetStr:

cin>>bet\_choice2;

int numberOfBets;

switch( bet\_choice2 )

{

case 1: cout<<"\nYou chose a straight bet: ";

numberOfBets = 1;

rou\_betDetails(numberOfBets);

cout<<"\nTotal bet price won: "<<rou\_winCondition(numberOfBets);

break;

case 2: cout<<"\nYou chose a split bet: ";

numberOfBets = 2;

rou\_betDetails(numberOfBets);

cout<<"\nTotal bet price won: "<<rou\_winCondition(numberOfBets);

break;

case 3: cout<<"\nYou chose a Trio bet: ";

numberOfBets = 3;

rou\_betDetails(numberOfBets);

cout<<"\nTotal bet price won: "<<rou\_winCondition(numberOfBets);

break;

case 4: cout<<"\nYou chose a Square bet: ";

numberOfBets = 4;

rou\_betDetails(numberOfBets);

cout<<"\nTotal bet price won: "<<rou\_winCondition(numberOfBets);

break;

case 5: cout<<"\nYou chose a five bet: ";

numberOfBets = 5;

rou\_betDetails(numberOfBets);

cout<<"\nTotal bet price won: "<<rou\_winCondition(numberOfBets);

break;

case 6: cout<<"\nYou chose a six bet: ";

numberOfBets = 6;

rou\_betDetails(numberOfBets);

cout<<"\nTotal bet price won: "<<rou\_winCondition(numberOfBets);

break;

default:cout<<"Wrong choice";

cout<<"Enter your choice again: ";

goto insideBetStr;

}

cout<<"\nTotal amount left: "<<initial\_amount;

char choice;

if( initial\_amount == 0 )

{

cout<<"\nYour money has exhausted";

cout<<"\nYou can't play more bets";

}

else

{

cout<<"\nDo you want to play again with the left amount: ";

cout<<"\nEnter your choice (y or n): ";

cin>>choice;

choice = toupper(choice);

if( choice == 'Y')

rou\_option();

cout<<"\nThank You";

}

}

int casino::rou\_spinningWheel()

{

cout<<"Spinning";

for(int ctr=0;ctr<10;ctr++)

{

cout<<".";

Sleep(500);

}

srand(time(0));

return((rand() % 36) + 1); ///to return a random number from 1-36

}

void casino::rou\_rules()

{

cout<<"\n\n\t\t\t RULES OF THE GAME ";

cout<<"\nRoulette players have a variety of betting options. Placing inside bets is either selecting the exact number of the pocket the ball will land in, or a small range of pockets based on their proximity layout. Players wishing to bet can do this in two ways: ";

cout<<"\n\n1. \'Outside\' Bets - now he will select bets on larger positional groupings of pockets. Types of outside bets, ";

cout<<"\n2. \'Inside\' Bets - now he will select bets on numbers ranging from 1-36 and 0,00. Types of inside bets, "<<endl;

system("PAUSE");

}

void casino::roulette()

{

entry();

rou\_rules();

rou\_option();

}

int main()

{

casino first\_player;

first\_player.roulette();

return(0);

}