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Description: This program will read from a text file that contains 100 questions, and will store

each one of those questions into an array of objects. Then the program will prompt the user for a guess

for each question and compare it to the answer.

\*/

#include <string>

#include <fstream>

#include <iomanip>

#include <iostream>

#include <ctime>

using namespace std;

class Trivia {

private:

//Declare variables

int cashmoney;

string guess;

string answer;

string question;

public:

//Define Constructors

//---------------------------------

//Pre-condition:No parameter passed

//Post-condition:Returns question

//Description:This function returns the question

string getquestion()

{

return question;

}

//Define member functions

//---------------------------------

//Pre-condition:No parameter passed

//Post-condition:Returns answer

//Description:This function returns the answer

string getanswer()

{

return answer;

}

//Pre-condition:No parameter passed

//Post-condition:Returns nothing

//Description:This function sets the question

void setquestion(string arg)

{

question = arg;

}

//Pre-condition:Parameter temp answer passed

//Post-condition:Returns nothing

//Description:this function sets the answer

void setanswer(string arg)

{

answer = arg;

}

//Declare array of Objects

Trivia::Trivia(int cash, string q, string a) :cashmoney(cash), question(q), answer(a) {}

Trivia::Trivia() : cashmoney(0), question(""), answer("") {}

};

int main ()

{

//Declare variables

int total=0;

string tempguess;

string tempanswer;

Trivia objects[100];

string tempquestion;

//Open input Stream

ifstream fin;

fin.open("Questions.txt");

//Read the text file lines into the Array objects

for (int i = 0; i <= 99; i++)

{

//Read line and store into variable until ifstream reads '?'

getline(fin, tempquestion, '?');

objects[i].setquestion(tempquestion);

//Readl line and store variable until end of line

getline(fin, tempanswer);

objects[i].setanswer(tempanswer);

}

//Create randomn number between 0 and 99

srand(time(NULL));

cout << "Below is 10 questions randomnly selected between a listof 0 and 100.";

cout << endl;

cout << endl;

for (int j = 0; j <= 9; j++)

{

int random = rand() % 100;

//Output question from temp variable

cout << objects[random].getquestion()<<"?";

cout << endl;

//Store user input into temp variable

cin >> tempguess;

if (tempguess == objects[random].getanswer())

{

//Create cash

int cash = rand() % 200;

cout << "You won: " << cash<<"$";

total += cash;

cout << endl;

//Output congratulation

cout << "Correct!!!";

cout << endl;

}

else if(tempguess!= objects[random].getanswer())

{

cout << "Incorect!!!";

cout << endl;

}

}

//Output friendly goodbye

cout << "Congratulations, you won: " << total<<"$";

cout << endl;

return 0;

}