#include<iostream>

#include<string>

**using** **namespace** std;

**char** choice;

**int** total\_marks;

**class** Questions

{

**private**:

string question;

string option1;

string option2;

string option3;

string option4;

**char** correct\_answer;

**char** correct\_answer1;

**int** marks;

**public**:

**void** input (string,string,string,string,string,**char**,**char**,**int**);

**void** display();

};

**int** main()

{

cout<<"-------------------------------------------------------\n";

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout<<"\* \*\n";

cout<<"\* \* WELCOME TO OOPS QUIZ! \* \*\n";

cout<<"\* \*\n";

cout<<"\* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \*\n";

cout<<"\* By: \*\n";

cout<<"\* \*\n";

cout<<"\* Charu (CO19319) \*\n";

cout<<"\* Harshdeep Singh Mand (CO19325) \*\n";

cout<<"\* Taruna Saini (CO19366) \*\n";

cout<<"\* \*\n";

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout<<"-------------------------------------------------------\n";

cout<<"Prass enter to start the quiz.......";

cin.get();

cout<<"GOOD LUCK! Each Question is of 10 Marks for a total of 100 Marks.";

Questions q1;

Questions q2;

Questions q3;

Questions q4;

Questions q5;

Questions q6;

Questions q7;

Questions q8;

Questions q9;

Questions q10;

q1.input("The pointers which are not initialized in a program are called:", "Void pointers", "Generic pointers", "Null pointers", "Empty pointers",'C','c', 10);

q2.input("A function declared in a base class that has no definition relative to the base class:", "Base function", "Pure Virtual Function", "Virtual function", "Member function",'B','b', 10);

q3.input("ios::in for ifstrem functions means:", "Open for writng only", "Append to end of file ", "Binary file", "Open for reading only",'D','d', 10);

q4.input("The default visibility mode of a class is: ", "Public", "Private", "Protected", "None of the above",'B','b', 10);

q5.input("The smallest individual unit in a program is called: ", "Token", "Objects", "Data", "Class",'A','a', 10);

q6.input("The operators that are used to format the data display are: ", "Member derferencing operators", "Memory management operators", "Manipulators", "Type cast operators",'C','c', 10);

q7.input("The code for handling exceptions is included in: ", "Try block", "Catch block", "Throw statement", "None of the above",'B','b', 10);

q8.input("How many file pointers are associated with each file?", "One", "Two", "Four", "Six",'B','b', 10);

q9.input("Which of the following statements is true? ", "Virtual functions can be static members", "We can have virtual constructors", "We cannot have destructors", "A virtual function can be a friend of another class",'D','d', 10);

q10.input("A class is called polymorphic if it contains: ", "Friend Function ", "Inline function", "Main function", "Virtual function",'D','d', 10);

q1.display();

q2.display();

q3.display();

q4.display();

q5.display();

q6.display();

q7.display();

q8.display();

q9.display();

q10.display();

cout<<endl;

cout<<"$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$\n";

cout<<"$ $\n";

cout<<"$ CONGRATULATIONS! $\n";

cout<<"$ YOU COMPLETED THE QUIZ $\n";

cout<<"$ $\n";

cout<<"$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$\n";

cout<<endl<<"Your Total Score is: "<<total\_marks <<" out of 100\n\n\n";

**return** 0;

}

**void** Questions::input(string q,string a1 ,string a2,string a3,string a4, **char** ans,**char** ans1, **int** i)

{

question = q;

option1 = a1;

option2 = a2;

option3 = a3;

option4 = a4;

correct\_answer = ans;

correct\_answer1 = ans1;

marks = i;

}

**void** Questions::display()

{

cout<<endl;

cout<<question<<endl;

cout<<"A. "<<option1<<endl;

cout<<"B. "<<option2<<endl;

cout<<"C. "<<option3<<endl;

cout<<"D. "<<option4<<endl;

cout<<endl;

cout<<"Choose an option: ";

cin>>choice;

**if**(choice==correct\_answer||choice==correct\_answer1)

{

cout<<endl;

cout<<"Absolutely Correct! \n";

total\_marks = total\_marks + marks;

cout<<"You earned "<<marks<<" marks.\n";

cout<<"Current Marks ="<<total\_marks;

cout<<endl;

}

**else**

{

cout<<endl;

cout<<"Sorry, Wrong Answer! You need to study some more..";

cout<<"The Correct Answer is: "<<correct\_answer;

cout<<endl;

}

}