**C# Practice Questions**

1. **Write code that defines a class, MyClass, with the method GetString(). This method should return the string stored in the protected field myString, accessible through the write-only public property ContainedString.**
2. **Derive a class, MyDerivedClass in Q1 above, from MyClass. Override the GetString() method to return the string from the base class, using the base implementation of the method, but add the text "(output from derived class)" to the returned string.**
3. **Create a class baseclass.This class has a method public virtual void method1(string message). message is displayed on screen.**

**Derive two classes child1 and child2 from baseclass. These two classes override the inherited method method1.**

**In main create an array of baseclass class with size 6.store 3 objects each of child1 and child2 in the array.**

**Then Using a for loop (a)retrieve the objects (b)call method using those objects and pass message.**

1. **create a List of characters (List<char> charlist).**

**Add 10 characters to it.**

**Create a method ListData(List<char> list){}**

**pass the charlist to that method.**

**In that method**

**(a)print the size of list.**

**(b)Create a new (List<char> newlist) in the ListData method.**

**(c)In the newlist add the characters from list in the reverse order**

**(means last character of list should be first character of newlist)**

1. **Create a Class User that has two public string fields- UserName and Password.**

**Create Another Class Database that has a static property List<Users> AllUsers {get;set;}. Add a few objects to this list.**

**Create a class Security that has a static Method Authenticate(User user){}. This Method is public and returns bool. In this method check if the user is valid or not and accordingly return true and false. You can access here the AllUsers property of Database class here.**

**Create a class Resources that has a private method GetDate that displays Current date and time. In this class create a method Init that takes username and password as input and calls the Authenticate method of Security class. If the method returns true call the GetDate method otherwise display ‘Access Denied’ message on screen.**

1. Create a class **BankAccount** with **Name, Balance, AccountNo fields.**

Create another class **Bank** that has **private BankAccount class Array** with size =5. Fill this array.

Create a Method **VerifyAccount** that takes **AccountNo** as input and verifies it by returning true and false.

Create methods **WithDraw** and **Deposit** with input parameters **AccountNo** and Amount. Before

Debit or credit you have to verify the account number and if not ok display error message.