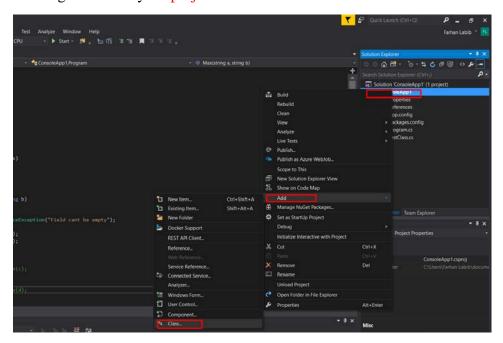
#Step_01:

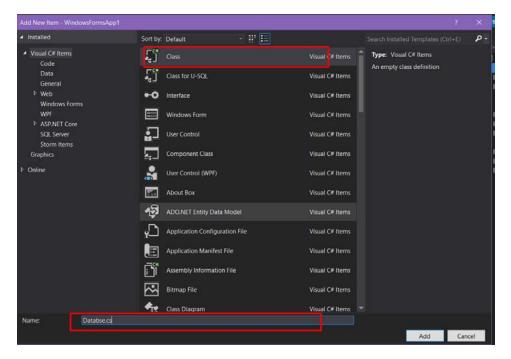
- 1. First, build a login page.
- 2. View this tutorial: https://www.youtube.com/watch?v=NX8-LhgFnUU
- 3. After building the login page, we have to test it.

#Step_02:

Now right click on your project and click on Add>Class



Now add a Class and named it as Database.



#Step_03:

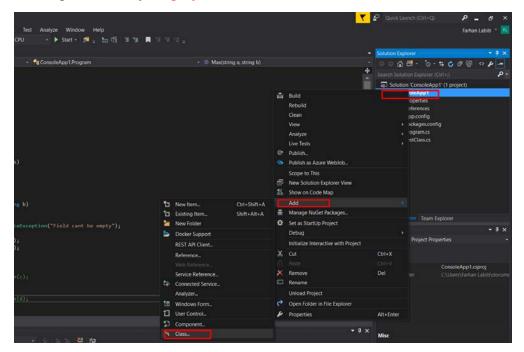
Now in database class, we need to build a database connection and try to use the same logic as we did for making the Login Form.

```
| SewindowsformsAppl | SewindowsformsAppl.Database | General Charles | General Charl
```

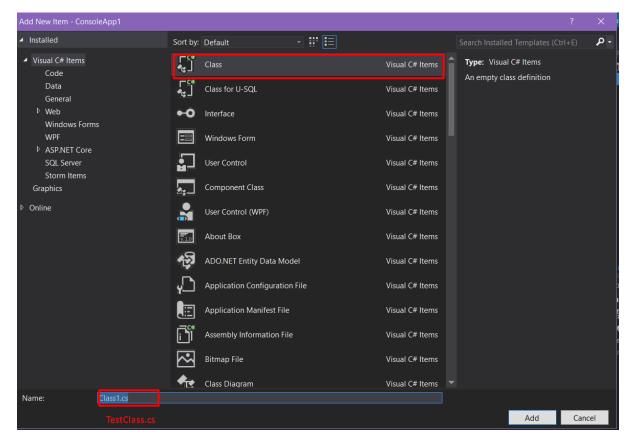
This method returns boolean because if we can log in successfully then it returns true and if not then it returns false.

#Step_04:

Now right click on your project and click on Add>Class



Create a class and name it to TestClass.cs



Then add a library> using Nunit.Framework;

```
ConsoleApp1 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

TestClass.cs P X Program.cs*

ConsoleApp1

Lusing NUnit.Framework;

using System;

using System.Collections.Generic;

using System.Taxt;

using System.Threading.Tasks;

7

8 ConsoleApp1

[TestFixture]
Oreferences

class TestClass

class TestClass

class TestClass

lusing System.Threading.Tasks;

7

8 Program ob = new Program();
```

#Step_05:

Then we have to create an object of our class.

There will four test cases for this Login method.

- Test Case 1: Login Using Valid Information
- Test Case 2: Login Using False Information
- Test Case 3: Username Null
- Test Case 4: Password Null

Now test your written code as we showed in the previous pdf.

After a successful run then it shows it passes All the test cases.

```
Test Explorer
                                      Login.cs [Design]
                                                                                  Dashboard.cs [Design]
                                         - م

→ WindowsFormsApp1.TestClass

  Search Search
  Streaming Video: Configure continuous integrat ▼ ry()
                                             kdb("Farhan", "4234");

▲ Passed Tests (4)

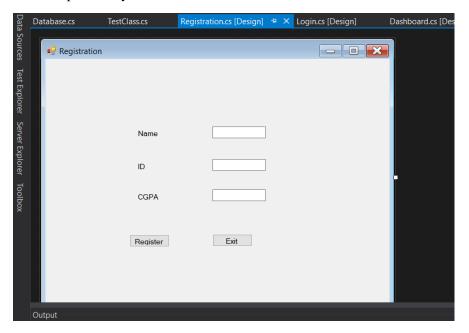
    entry
                                       182 ms

    ✓ falseentry

                                        3 ms
    v nullentry
                                             y()
     nullpassentry
                                              11ReferenceException>(()=> ob.Checkdb("", "4234"));
                                             entry()
                                              11ReferenceException>(() => ob.Checkdb("Farhan", ""));
```

#Step_06:

Now we try to test insert operation. For this first, make the below form using your gained knowledge from the previously viewed tutorial.

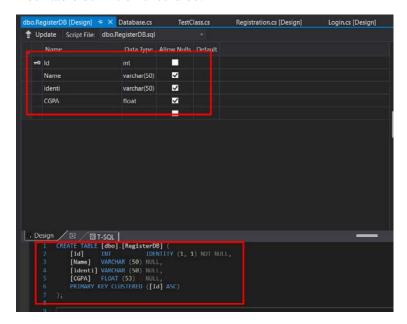


Your button code will be:

```
| Suring System.End; | Suring System.End; | Suring System.Broading.Tasks; | Using System.Broa
```

Figure:10

Your table definition should be:



#Step_07:

Now we go to the Database Class and write the code using the same logic as Registration (Figure:10) Form.

#Step_08:

Now go to the TestClass and write the test code.

There will four test cases for this Insert method.

- Test Case 1: Registration Using Valid Information
- Test Case 2: Name Null
- Test Case 3: Id Null
- Test Case 4: CGPA Null

Now run the test cases.

