Assignment 17

C# Programing

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NATIONS BENIFITS

A. Assembly is a container of namespace, which is build up with .net Framework app. It is a basic compiled code that can be executed by CLR.

Assembly can be (.exe) or (.dll) depending on the project that we code.

Assemblies are used when we required.

Q. In a tabular format write the access modifier and explain

Table

	Same Assembly			Another Assembly	
	Base	Derived	Outer	Derived	outer
Public	✓	✓	✓	✓	✓
Private	✓	✗	✗	✗	✗
Protected	✓	✓	✗	✓	✗
Internal	✓	✓	✓	✗	✗
protected internal	✓	✓	✓	✓	✗

CODE

Assembly-1 :

```
namespace ASsemble1
{
    public class Parent_c
    {
        public int a;
        private int b;
        protected int c;
        internal int d;
        protected internal int e;
        /// <summary>
        /// Base Class Method
        /// </summary>
        public void BaseClassMethod()
        {
            a = 10;
            b = 20;
            c = 30;
            d = 40;
            e = 50;
        }
    }
    /// <summary>
    /// Derived Class
    /// </summary>
    public class Child_c : Parent_c
    {
        /// <summary>
        /// Derived Class Method
        /// </summary>
        public void DerivedClassMethod()
        {
            a = 10;
            //b = 20; Private variable are limited to same derived class
            c = 30;
            d = 40;
            e = 50;
        }
```

```csharp
    }
    /// <summary>
    /// Main Class
    /// </summary>
    public class MainClass
    {
        /// <summary>
        /// Base Class Object Created
        /// </summary>
        Child_c bc = new Child_c();
        /// <summary>
        /// Main Class Method
        /// </summary>
        public void MainClassMethod()
        {
            bc.a = 10;
            //bc.b = 20; Private variable are limited to same main class
            //bc.c = 30; Protected variable are limited to same main class
            bc.d = 40;
            bc.e = 50;
        }
    }
}
```

Assembly-2 :

```csharp
namespace Another_Lib
{
    public class AnotherAssCl : Parent_c
    {
        public void AnotherClMet()
        {
            a = 10;
            //b = 20; Private variable are limited to other derived class
            c = 30;
            //d = 40; Internal variable are limited to other derived class
            e = 50;
        }

    }
    public class OtherMain
    {
        Parent_c bc = new Parent_c();
        public void OtherMainClassMethod()
        {
            bc.a = 10;
            //bc.b = 20; Private variable are limited to other main class
            //bc.c = 30; Protected variable are limited to other main class
            //bc.d = 40; Internal variable are limited to other main class
            //bc.e = 50; Protected Internal variable are limited to other main
class

        }

    }

}
```