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| Day 17 Assignment  By  B.P.N.V.S.Sudheer  15-02-22 |

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| 1. Research and write what is assembly in C# |
| * Asssembly is unit of deployment like EXE or DLL assembly is unit of deployment like EXE or a DLL It is completely self-describing and is is a reusable versionable, self-describing deployment unit for types and resources it is the primary building block of a .net application * in general an assembly consists of for elements 1. The assembly manifests 2. Metadata 3. Microsoft intermediate language (MSIL) * 1. Assembly Manifest Assembly manifest contains Assembly Name, version number, culture, and strong name, list of all files the information stored in the manifest. * 2.Metadata  Metadata describes all classes and class members that are defined in the assembly, and the classes and class members that the current assembly will call from another assembly * 3.Microsoft Intermediate Language (MSIL)  It is also known as Common Intermediate Language. You can use any .Net compliers for compiling the .Net application and converted into MSIL. The main purpose of this Intermediate code formation is to have a platform independent code |
| 2. In a tabular format write the access modifiers and explain(as I did in the class, create two assemblies with three classes in first assembly, 2 classes in other assembly) |

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| Within Assembly | Other Assembly |

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| --- | --- | --- | --- | --- | --- |
|  | Within Class | Derived  Class | Other  Class | Derived Class | Other Class |
| Public | yes | yes | yes | yes | yes |
| Private | yes | no | no | no | no |
| Protected | yes | yes | no | yes | no |
| Internal | yes | yes | yes | no | no |
| Default | yes | no | no | no | no |

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| Protected internal | yes | yes | yes | yes | no |

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| Mybaseclass |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace sudheerLibrary  {  public class mybaseclass  {  public int a;  private int b;  protected int c;  internal int d;  protected internal int e;    public void mybaseMethod()  {  a = 5;  b = 6;  c = 7;  d = 8;  e = 9;  }    }  public class myDerivedclass :mybaseclass  {  public void myderivedclassMethod()  {    a = 5;  b = 6;  c = 7;  d = 8;  e = 9;      }  public void otherclassMethod()  {  mybaseclass m = new mybaseclass();    m.a = 5;  m.b = 6;  m.c = 7;  m.d = 8;  m.e = 9;      }    }  } |
| Mypublicderiveclass |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using sudheerLibrary;    namespace publicLibrary  {  public class mypublicderivedclass : mybaseclass  {  public void mypublicderivedclassMethod()  {  a = 5;  b = 6;  c = 7;  d = 8;  e = 9;  }    }  public class mypubliclibraryotherclass  {  public void mypubliclibraryotherclassMethod()  {  mybaseclass m = new mybaseclass();  m.a = 5;  m.b = 6;  m.c = 7;  m.d = 8;  m.e = 9;  }    }    } |
| Output: |
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