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| **Day-17 Morning Assignments**  **By**  **Manoj Yekolla**  **15-Feb-2022** |

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| **1. Research and write what is**  **assembly in C#** |
| * An Assembly is a (.exe) file or (dll) file , Independent smallest unit. * An Assembly is a basic building block of .Net Framework Applications. * An Assembly is Common Language Infrastruture (CLI) is a compiled code Library used for Deployement. |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Assembly\_Ex  {  internal class Program  {  static void Main(string[] args)  {  Console.WriteLine("Hello World");  Console.ReadLine();  }  }  } |
| Output :  Screenshot (295) |

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| **2.(as I did in the class, create two assemblies with 3 classes in first assembly, 2 classes in other assembly)** |
| **Code : 3 classes First Assembly** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace ManojLibrary1  {  public class ParentClass  {  public int a;  private int b;  protected int c;  internal int d;  protected internal int e;  public void MyParentClass()  {  a = 3;  b = 4;  c = 5;  d = 6;  e = 7;  }  }  public class ChildClass : ParentClass  {  public void MyChildClass()  {  a = 3;  b = 4;  c = 5;  d = 6;  e = 7;  }  }  public class OtherClass  {  public void MyOtherClass()  {  ParentClass obj = new ParentClass();  obj.a = 3;  obj.b = 4;  obj.c = 5;  obj.d = 6;  obj.e = 7;  }  }  } |
| **Code : 2 Classes Other Assembly** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using ManojLibrary1;  namespace PublicLibrary1  {  public class DerivedClass :ParentClass  {  public void Myderivedclass()  {  a = 3;  b = 4;  c = 5;  d = 6;  e = 7;  }  }  public class Otherclass1  {  public void MyOther()  {  ParentClass obj = new ParentClass();  obj. a = 3;  obj. b = 4;  obj. c = 5;  obj. d = 6;  obj.e = 7;  }  }  } |
| **Access Modifiers : Tabular Format** |

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|  | **With in Assembly** |  |  | Other Assembly |  |
|  | With In 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 |
| Protected  Internal | Yes | Yes | Yes | Yes | No |