**Part 62 - Creating partial classes in c#**

**Suggested Videos**  
[Part 61 - Partial classes in c#](http://csharp-video-tutorials.blogspot.com/2012/11/partial-classes-in-c-part-61.html)  
  
**1.**All the parts spread across different files, must use the **partial keyword**. Otherwise a compiler error is raised.   
**Missing partial modifier. Another partial declaration of this type exists**  
  
**2.** All the parts spread across different files, must have the **same access modifiers**. Otherwise a compiler error is raised.   
**Partial declarations have conflicting accessibility modifiers**

**3.** If any of the parts are declared abstract, then the **entire type is considered abstract**.  
  
**4.** If any of the parts are declared sealed, **then the entire type is considered sealed**.   
  
**5.**If any of the parts inherit a class, **then the entire type inherits that class.**

**6. C# does not support multiple class inheritance.** Different parts of the partial class, must not specify different base classes. The following code will raise a compiler error stating - **Partial declarations must not specify different base classes.**  
public partial class SamplePartialClass : Employee  
{  
}  
public partial class SamplePartialClass : Customer  
{  
}  
public class Employee  
{  
}  
public class Customer  
{  
}

**7.** Different parts of the partial class can specify different base interfaces, and the final type **implements all of the interfaces listed by all of the partial declarations.**In the example below, **SamplePartialClass** needs to provide implementation for both **IEmployee**, and **ICustomer** interface methods.  
public partial class SamplePartialClass : IEmployee  
{  
    public void EmployeeMethod()  
    {  
        //Method Implementation  
    }  
}  
public partial class SamplePartialClass : ICustomer  
{  
    public void CustomerMethod()  
    {  
        //Method Implementation  
    }  
}  
public interface IEmployee  
{  
    void EmployeeMethod();  
}  
public interface ICustomer  
{  
    void CustomerMethod();  
}  
  
**8.** Any **members that are declared in a partial definition** are available to all of the other parts of the partial class.