```
Inheritance
using System;
namespace Tut3
public class User
public string Name;
      private string Location;
public User()
{
        Console.WriteLine("Base Class Constructor");
public void GetUserInfo(string loc)
        Location = loc;
        Console.WriteLine("Name: {0}", Name);
        Console.WriteLine("Location: {0}", Location);
}
}
public class Details: User
public int Age;
 public Details()
        Console.WriteLine("Child Class Constructor");
public void GetAge()
 {
        Console.WriteLine("Age: {0}", Age);
}
}
class Program
 static void Main(string[] args)
        Details d = new Details();
        d.Name = "Suresh Dasari";
```

// Compile Time Error

d.Age = 32;

d.GetAge();

//d.Location = "Hyderabad";

d.GetUserInfo("Hyderabad");

Console.WriteLine("\nPress Any Key to Exit..");

```
Console.ReadLine();
}
}
}
Multilevel Inheritance
using System;
namespace Tut4
{
public class A
{
public string Name;
public void GetName()
{
       Console.WriteLine("Name: {0}", Name);
}
}
public class B: A
public string Location;
public void GetLocation()
{
        Console.WriteLine("Location: {0}", Location);
}
public class C: B
public int Age;
 public void GetAge()
{
       Console.WriteLine("Age: {0}", Age);
}
}
class Program
static void Main(string[] args)
        C c = new C();
c.Name = "Suresh Dasari";
  c.Location = "Hyderabad";
   c.Age = 32;
  c.GetName();
c.GetLocation();
```

```
c.GetAge();
           Console.WriteLine("\nPress Any Key to Exit..");
           Console.ReadLine();
}
C# Multiple Inheritance
public class A
// Implementation
public class B
// Implementation
public class C: A, B
// Implementation
error
Method Overriding
      using System;
      namespace ConsoleApp18
         public class employee
             public int salary = 30000;
             public virtual void total()
                 Console.WriteLine("Employee\'s Total Salary"+salary);
             }
         public class programmer : employee
             public int bonus = 10000;
             public override void total()
                 Console.WriteLine("Employee\'s Total Salary" + salary);
                 Console.WriteLine("Total Salary for programmer is:"+ (bonus +salary));
             }
          }
```

public sealed class developer : programmer

```
{
    public int bonus1 = 20000;
    public override void total()
         Console.WriteLine("Employee\'s Total Salary" + salary);
         Console.WriteLine("Total Salary for programmer is:" + (bonus + salary));
Console.WriteLine("Total Salary for developer is:" + (bonus1 + salary));
    }
}
class Program
    static void Main(string[] args)
        // programmer p1 = new programmer();
        // p1.total();//base class method
        // p1.totbonus();//derived class method
         //Console.WriteLine(p1.salary + p1.bonus);
         developer d1 = new developer();//for the last derived class
         d1.total();
    }
}
```

}