DAY 14 ASSIGNMENT
BY
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Q1.Reasearch and write what is the use of sealed class. WACP to illustrate the sealed class

Sealed class: 1.A sealed has same as normal class
2. A sealed class can not be used as parent class, base class...
3.It has variables, methods ,properties..

Code:

```
namespace DAY_14_PROJECT_1
{
    3 references
    sealed class Employee
    {
        1 reference
        public int PrintId()
        {
            return 100;
        }
    }
    0 references
    class Customer:Employee

    0 references
    internal class Program
    {
```

Q2.Research and write difference between normal properties and Auto implemented property.

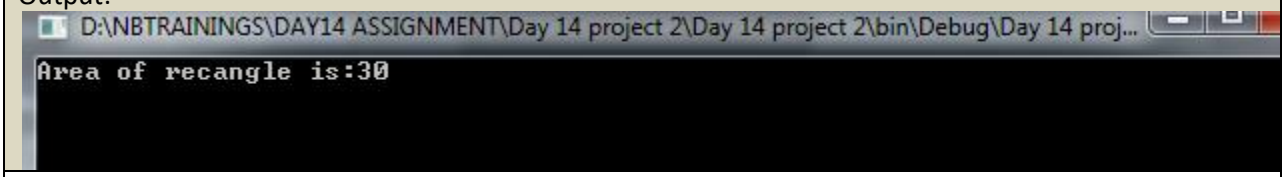
Normal Properties	Auto -Implemented Properties
1.Normal property deals with private variables. 2.It can have get; set;	1.It does not deal with any variables. 2.It must have get; but we can use as optional as set;

Normal property:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_14_project_2
{
   class Rectangle
   {
```

```
        private int length;
        private int breadth;
        private int area;

        public int Length
        {
            set
            {
                length = value;
            }
        }
        public int Breadth
        {
            set
            {
                breadth = value;
            }
        }
        public int Area
        {
            get
            {
                area  = length * breadth;
                return area;
            }
        }

    }
    internal class Program
    {
        static void Main(string[] args)
        {
            Rectangle a = new Rectangle();
            a.Length = 5;
            a.Breadth = 6;

            Console.WriteLine("Area of recangle is:{0}",a.Area);
            Console.ReadLine();
        }
    }
}
```

Output:

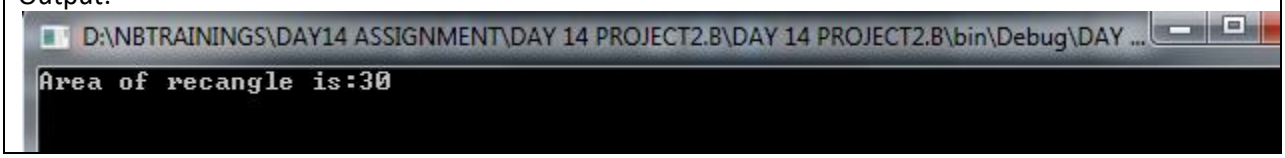


Auto- Implemented property:

```
using System;
using System.Collections.Generic;
using System.Linq;
```

```
using System.Text;
using System.Threading.Tasks;

namespace DAY_14_PROJECT2.B
{
   class Rectangle
   {
      private int length;
      private int breadth;
      private int area;
      public int Area

      {
         get
         {
            area = length * breadth;
            return area;
         }
      }

      internal class Program
      {
         static void Main(string[] args)
         {
            Rectangle a = new Rectangle();
            a.length = 5;
            a.breadth = 6;

            Console.WriteLine("Area of recangle is:{0}", a.Area);
            Console.ReadLine();

         }
      }  }
}
```

Output:



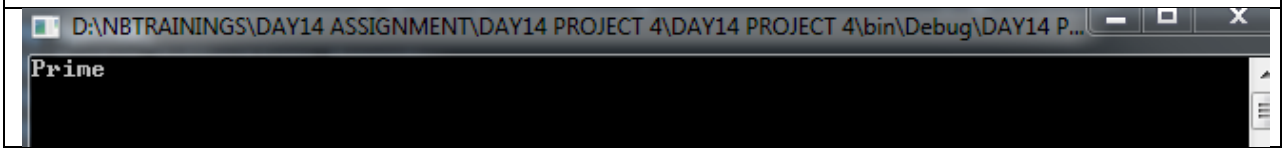
Q4.WACP to check he given number is prime or Not Prime using Logic discussed in the class.

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

```
namespace DAY14_PROJECT_4
{

   //AUTHOR : ANDE MANOHAR
   //PURPOSE: WACP TO CHECK GIVEN NUMBER IS PRIME OR NOT
   internal class Program
   {


      static void Main(string[] args)
      {
         int n = 13, i;
         for(i=2;i<n;i++)
         {
            if (n % i == 0)
               break;
         }
         if (i == n)
            Console.WriteLine("Prime");
         else
            Console.WriteLine("Not prime");
         Console.ReadLine();
      }
   }
}
```

OUTPUT:



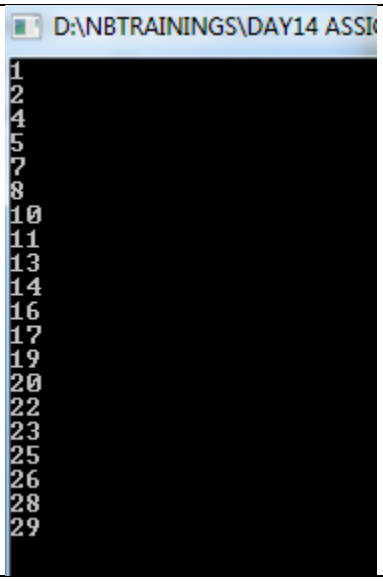
Q5.WACP to print the number from 1 to 30 and skip the numbers which are divisible by 3

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace DAY_14_PROJECT_5
{
   internal class Program
   {
      static void Main(string[] args)
      {
        for(int i =1;i<=30;i++)
         {
            if (i % 3 == 0)
               continue;
```

```
            Console.WriteLine(i);
        }
        Console.ReadLine();
    }
  }
}
```

Code:



Q6WACP to find first number of after 1000 which is divisible by 97

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace DAY_14_PROJECT6
{
  internal class Program
  {
    static void Main(string[] args)
    {
      for(int i =1000;i<=1097;i++)
      {

        if(i%97 ==0)
        {
          Console.WriteLine(i);
          break;
        }
```

```
        }
        Console.ReadLine();
    }
  }
}
```

Output: