## **DAY 14 ASSIGNMENT**

### -- BY SARATH KASIMSETTY

# 1) Research and write what is the use of sealed class.

#### WACP to illustrate sealed class.

- Sealed class is used to stop a class to be inherited. You cannot derive or extend any class from it.
- Sealed method is implemented so that no other class can overthrow it and implement its own method.
- Sealed class can be a derived class but can't be a base class.
- A sealed class cannot also be an abstract class.

#### CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
//sarath kasimsetty
//Research and write what is the use of sealed class.
//WACP to illustrate sealed class.
namespace Day14Project1
    class TataSteel
        public int id;
        public string name;
        public static string Company = "TATA GROUP";
        public virtual void GetReadEmployee()
            //Read the value from user
            Console.WriteLine("Enter a Login Id ");
            id = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter a Name :");
            name = Console.ReadLine();
        public virtual void GetDisplayEmpDetails()
            Console.WriteLine("ID: {0} , Name = {1} , Company = {2}", id, name,
Company);
```

```
sealed class TataMotors : TataSteel
        //TataMotors is a derived of TataSteel(base)
        public override void GetReadEmployee()
           Console.WriteLine("Enter a Login Id ");
            id = Convert.ToInt32(Console.ReadLine());
           Console.WriteLine("Enter a Name :");
            name = Console.ReadLine();
        }
        public override void GetDisplayEmpDetails()
           Console.WriteLine("ID: {0} , Name = {1} , Company =
{2}",id,name,Company);
   sealed class CompanyMark
        public static string CompanyLocation = "Hyderabad";
   }
   internal class Program
        static void Main(string[] args)
           Console.WriteLine("Location : {0}",CompanyMark.CompanyLocation);
           Console.WriteLine("******Emp Details******");
            TataSteel emp = new TataSteel();
            emp.GetReadEmployee();
            emp.GetDisplayEmpDetails();
           Console.ReadLine();
        }
   }
```

## **OUTPUT:**

```
Location : Hyderabad

******Emp Details*****
Enter a Login Id

879
Enter a Name :
.sarath

ID: 879 , Name = sarath , Company = TATA GROUP
```

# 4) WACP to check if the number is prime or not using logic discussed in the class HINT: use break;

#### CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
//sarath kasimsetty
//WACP to check if the number is prime or not using logic discussed in the class
//HINT : use break;
namespace Day14Project4
    internal class Program
        static void Main(string[] args)
            int n, i;
            //read value from user
            Console.WriteLine("Enter any number : ");
            n = Convert.ToInt32(Console.ReadLine());
            //logical
            for(i =2;i<=n;i++)</pre>
                if (n \% i == 0)
                    break:
            if (n == i) // user value and loop value will be same its prime
                Console.WriteLine("{0} IS PRIME",n);
            else // If case loop is not satisfied it eill be break
```

```
Console.WriteLine("{0} IS NOT PRIME",n);

Console.ReadLine();
}

OUTPUT:

Enter any number :

13

13 IS PRIME
```

# 5. print numbers from 1 to 30 and skip the numbers divisible by 3 HINT: use continue:

```
HINT : use continue;

CODE:
```

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
//sarath kasimsetty
//print numbers from 1 to 30 and skip the numbers divisible by 3
//HINT : use continue;
namespace Day14Project5
    internal class Program
        static void Main(string[] args)
            int n=30, i;
            for(i=0;i<=n;i++)</pre>
                if (i % 3 == 0)
                    continue;
  // loop values divisible by 3 condition true ,those number are skip and print
remaining numbers
                Console.WriteLine(i);
```

```
Console.ReadLine();
        }
OUTPUT:
         11
         13
         14
         16
         17
         19
         20
         22
         23
         25
         26
         28
         29
```

```
6) Find the first number after 1000 which is divisible by 97. HINT: use for loop and break
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
//sarath kadimsetty
//Find the first number after 1000 which is divisible by 97.
//HINT : use for loop and break
```

```
namespace Day14Project6
{
    internal class Program
        static void Main(string[] args)
            int n = 97, i;
            Console.Write("******By use loop and break******\n\n");
           // first number after 1000 which is divisible by 97
            for (i=1000;i<1200;i++)</pre>
            {
                if (i % n == 0)
                    break; // if condition is true that loop is stop by
using break;
            Console.WriteLine(i);
            Console.Write("*******By use loop*******\n\n");
            //After numbers of 1000 which is divisible by 97
            for (i = 1000; i < 1200; i++)</pre>
                if (i % n == 0)
                    Console.WriteLine(i);
            }
            Console.ReadLine();
        }
    }
```

**OUTPUT:** 

```
*********By use loop and break*****

1067

********By use loop******

1067

1164
```