Swinburne University of Technology

COS20007 Object Oriented Programming

2.2P - Counter Class

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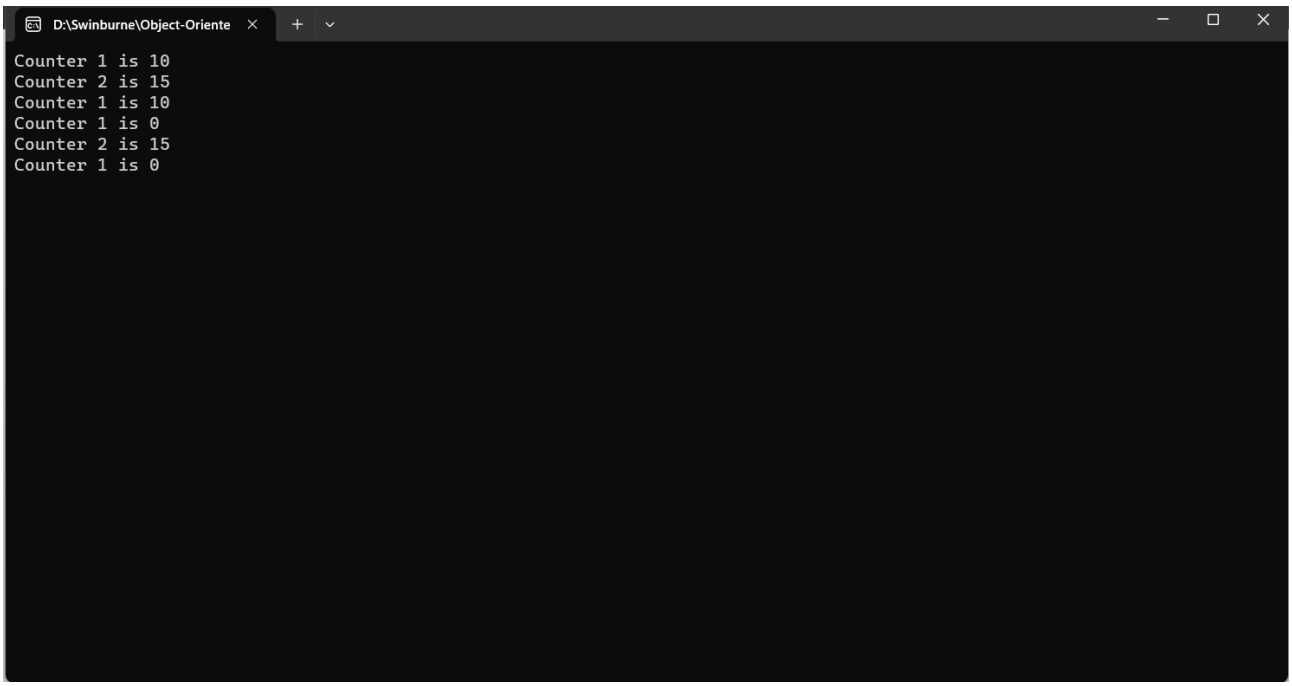
```
namespace CounterTask
{
    internal class Program
    {
        private static void PrintCounters(Counter[] counters)
        {
           foreach(Counter c in counters)
            {
                Console.WriteLine(c.Name + " is " + c.Ticks);
            }
        }
        static void Main(string[] args)
        {
            Counter[] myCounters = { null, null, null };
            myCounters[0] = new Counter("Counter 1");
            myCounters[1] = new Counter("Counter 2");
            myCounters[2] = myCounters[0];
            for (int i = 0; i <= 9; i++)
            {
                myCounters[0].Increment();
            }
            for (int i = 0; i <= 14; i++)
            {
                myCounters[1].Increment();
            }
            PrintCounters (myCounters);
            myCounters[2].Reset();
            PrintCounters(myCounters);
            Console.ReadLine();
        }
    }
}
```

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

namespace CounterTask
{
    public class Counter
    {
        private int _count;
        private string _name;

        public Counter(string name)
        {
            _name = name;
            _count= 0;
        }
        public void Increment() { _count++; }
        public void Reset() { _count = 0; }
        public string Name
        { get { return _name; } set { _name = value; } }
        public int Ticks { get { return _count;} }
    }
}
```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Counter 1 is 10
Counter 2 is 15
Counter 1 is 10
Counter 1 is 0
Counter 2 is 15
Counter 1 is 0