COS 20007 Task 2.2

Duc Thuan Tran *104330455*

I. Code

```
1. Counter.cs
using System;
namespace CounterTask_2._2_
{
       public class Counter
       {
              private int _count;
              private string _name;
    public string Name
      get
        return _name;
      }
      set
      {
        _name = value;
      }
    }
              public int Ticks
                     get
                     {
                             return _count;
                     }
              }
    public Counter(string name)
              {
                     _name = name;
                     _count = 0;
              }
              public void Increment()
                     _count ++;
```

}

```
public void Reset()
                      _{count} = 0;
       }
}
   2. Program.cs
namespace CounterTask_2._2_;
class Program
  private static void PrintCounters(Counter[] counters)
    foreach (Counter c in counters)
      Console.WriteLine("{0} is {1}", c.Name, c.Ticks);
  static void Main(string[] args)
    Counter[] myCounters = new Counter[3];
    myCounters[0] = new Counter("Counter 1");
    myCounters[1] = new Counter("Counter 2");
    myCounters[2] = myCounters[0];
    for (int i = 0; i < 10; i++)
      myCounters[0].Increment();
    for (int i = 0; i < 15; i++)
      myCounters[1].Increment();
    PrintCounters(myCounters);
    myCounters[2].Reset();
    PrintCounters(myCounters);
 }
```

II. Image

1. Program's output

