Counter Class

PDF generated at 12:49 on Tuesday 8th August, 2023

```
1   public class MainClass
2   {
3       private static void PrintCounters(Counter[] counters)
4       {
5           foreach (Counter counter in counters)
6           {
7                   Console.WriteLine("{0}:{1}", counter.Name, counter.Ticks);
8           }
9       }
10      private static void Main(string[] args)
11      {
12          Counter[] myCounters = new Counter[3];
13          myCounters[0] = new Counter("Counter 1");
14          myCounters[1] = new Counter("Counter 2");
15          myCounters[2] = myCounters[0];
16          for (int i = 0; i < 9; i++)
17          {
18              myCounters[0].Increment();
19          }
20          for (int i = 1; i < 14; i++)
21          {
22              myCounters[1].Increment();
23
24          }
25          MainClass.PrintCounters(myCounters);
26          myCounters[2].Reset();
27          MainClass.PrintCounters(myCounters);
28      }
29  }
```

```csharp
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;
    }
}
```