SWINBURNE UNIVERSITY OF TECHNOLOGY

Object Oriented Programming (2022 S1)

DOUBTFIRE SUBMISSION

Task 2.1P: Counter Class

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File 1 of 3 Program class

```
using System;
   namespace Task_2._1
        class Program
5
6
            static void Main(string[] args)
                Counter[] mycounters = new Counter [3];
                mycounters[0] = new Counter("Counter 1");
                mycounters[1] = new Counter("Counter 2");
12
                mycounters[2] = mycounters[0];
13
                for(int i = 0; i < 4; i++)
15
                     mycounters[0].Increment();
17
18
19
                for (int i = 0; i < 9; i++)
20
                     mycounters[1].Increment();
22
                }
23
24
                PrintCounters(mycounters);
25
26
                mycounters[2].Reset();
27
                PrintCounters(mycounters);
29
            }
30
31
            static void PrintCounters(Counter[] counters)
32
            {
                foreach (Counter c in counters)
34
35
                     Console.WriteLine("{0} is {1}", c.Name, c.Ticks);
36
                }
37
            }
38
39
        }
40
   }
41
```

File 2 of 3 Counter class

```
using System;
    namespace Task_2._1
3
         public class Counter
         {
5
             private int _count;
6
             private string _name;
             public string Name
             {
10
                  get
11
                  {
12
                      return _name;
13
                  }
14
15
                  set
                  {
16
                       _name = value;
17
                  }
18
             }
19
20
             public Counter(string name)
22
                  _name = name;
^{23}
                  _count = 0;
24
             }
25
26
             public void Increment()
27
             {
28
                  _count++;
29
             }
30
31
             public void Reset()
32
             {
                  _count = 0;
34
35
             }
36
37
38
             public int Ticks
39
             {
40
                  get
41
                  {
42
                       return _count;
43
                  }
44
45
             }
46
         }
47
    }
48
```

File 3 of 3 Screenshot

