**COS 20007**

**Task 2.2**

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1. **Code**
2. 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;

}

}

}

1. 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);

}

}

1. **Image**
2. Program’s output

A screenshot of a computer

Description automatically generated