Assignment-secondarythread601

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

namespace ConsoleApplication7
{
    class program
    {
        public static void NumberCounter()
        {
            for (int i = 1; i < 21; i++)
            {
                Console.WriteLine(i);
            }
        }
        public static void NumberCounter2(object target)
        {
            int number = 1;
            if (int.TryParse(target.ToString(), out number))
            {
                for (int i = 1; i < number; i++)
                {
                    Console.WriteLine(i);
                }
            }
        }
        public class NumberHolder
        {
            public int num;
            public object obj = new object();

            public void NumberCount3()
            {
                for (num = 1; num < 21;)
                {

                    num++;
                    Thread.Sleep(100);
                    Console.WriteLine("From Increment Thread :" + num);
                }

            }
            public static void NumberCounter4()
            {
                for (int i = 1; i < 21; i++)
                {
                    Console.WriteLine(i);
                }
            }

        }
```

```
        static void Main(string[] args)
        {

            //QN- 1,2,3,4 & 5
            program p = new program();

            /*Thread t1 = new Thread(program.NumberCounter);
             ThreadStart threadDelegate = new ThreadStart(program.NumberCounter);
             t1.Start();


             Thread t2 = new Thread(NumberCounter);
             t2.Start();*/

            //QN- 6

            /* Console.WriteLine("Enter the number :");
             object target = Console.ReadLine();
             ParameterizedThreadStart parameteriedThreadStart = new
ParameterizedThreadStart(program.NumberCounter2);
             Thread T3 = new Thread(parameteriedThreadStart);
             T3.Start(target);*/

            //QN- 7 & 8

            /* NumberHolder nh = new NumberHolder();
             Thread thIncr = new Thread(nh.NumberCount3);
             thIncr.Start();*/

            Thread T1 = new Thread(NumberHolder.NumberCounter4);
            T1.Start();
            Thread T2 = new Thread(NumberHolder.NumberCounter4);
            T2.Start();
        }
    }
}
```

OUTPUT

1

2

3

Running 20 threads 1 by 1 stop after 3 sec...

1

2

3

4

5

6

7

8

Start Thread :5

Start Thread :1

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

Start Thread :3

Start Thread :2

9

10

11

12

13

14

15

16

17

Start Thread :8

Start Thread :6

Start Thread :4

Start Thread :7

18

19

Start Thread :9

Start Thread :10

Start Thread :11

End Thread :8

End Thread :2

Start Thread :13

End Thread :3

End Thread :7

Start Thread :15

All threads run successfully

Start Thread :12

End Thread :6

Start Thread :16

Start Thread :14

End Thread :4

Start Thread :17

End Thread :5

Start Thread :18

End Thread :1

Start Thread :19

End Thread :9

End Thread :10

End Thread :11

End Thread :18

End Thread :12

End Thread :14

End Thread :19

End Thread :15

End Thread :17

End Thread :16

End Thread :13