Practical 5

Aim: Demonstrate threading in C#.

#PROGRAM

```
using System;
using System.Threading;

namespace ConsoleApplication5
{
    class Program
    {

        public static void Run()
        {
            for (int i = 0; i < 10; i++)
            {
                Console.WriteLine("IN RUN::" + Thread.CurrentThread.Name + "Count::"+i);
            }
        }

        static void Main(string[] args)
        {
            Console.WriteLine("AAA" + Thread.CurrentThread);
            Thread t = Thread.CurrentThread;
            Thread.CurrentThread.Name = "MAIN";
            Thread.CurrentThread.Priority = ThreadPriority.Lowest;
            Console.WriteLine("AA3" + t);
            ThreadStart ts = new ThreadStart(Run);
            Console.WriteLine("AA4");
            Thread th = new Thread(ts);
            th.Name = "Thread 1";
            Thread th1 = new Thread(ts);
            th1.Name = "Thread 2";
            th.Priority = ThreadPriority.Lowest;
            th1.Priority = ThreadPriority.Highest;
            th.Start();
            th1.Start();
            for (int i = 0; i < 10; i++)
            {
                Console.WriteLine("IN RUN::" + Thread.CurrentThread.Name + "Count::" + i);
            }
            th1.Join();
            th.Join();
```

```
        }
    }
}
```

#OUTPUT

```
D:\BVM\#NET\Fiile>th.exe
AAASystem.Threading.Thread
AA3System.Threading.Thread
AA4
IN RUN::MAINCount::0
IN RUN::MAINCount::1
IN RUN::MAINCount::2
IN RUN::MAINCount::3
IN RUN::MAINCount::4
IN RUN::MAINCount::5
IN RUN::MAINCount::6
IN RUN::MAINCount::7
IN RUN::MAINCount::8
IN RUN::MAINCount::9
IN RUN::Thread 2Count::0
IN RUN::Thread 2Count::1
IN RUN::Thread 2Count::2
IN RUN::Thread 2Count::3
IN RUN::Thread 2Count::4
IN RUN::Thread 1Count::0
IN RUN::Thread 1Count::1
IN RUN::Thread 1Count::2
IN RUN::Thread 1Count::3
IN RUN::Thread 1Count::4
IN RUN::Thread 1Count::5
IN RUN::Thread 1Count::6
IN RUN::Thread 1Count::7
IN RUN::Thread 2Count::5
IN RUN::Thread 2Count::6
IN RUN::Thread 2Count::7
IN RUN::Thread 2Count::8
IN RUN::Thread 2Count::9
IN RUN::Thread 1Count::8
IN RUN::Thread 1Count::9
```