```
-----CounterThread.java----
 1
   package com.ameya.threads;
 2
 3
 4
   public class CounterThread extends Thread {
       public CounterThread(String name,int priority) {
 5
 6
          this.setName(name);
          //Priorities=1-10, Where 1=MIN PRIORITY,
 7
          5=NORM PRIORITY, 10=MAX PRIORITY
 8
          this.setPriority(priority);
          System.out.println(this);
 9
10
       }
       public void run() {
11
          for(int cnt=1;cnt<=10;cnt++) {</pre>
12
              System.out.println(this.getName()+" => "+cnt);
13
              try {
14
15
                 Thread.sleep(1000);
16
              } catch (InterruptedException e) {
                 e.printStackTrace();
17
              }
18
19
          System.out.println(this.getName()+" TERMINATED.... !!!");
20
       }
21
22
   }
23
          -----TestExtendsThread.java-----
24
   package com.ameya.test;
25
   import com.ameya.threads.CounterThread;
26
27
   public class TestExtendsThread {
28
29
       public static void main(String[] args) {
30
          CounterThread cThread1=new CounterThread("Thread-1",
31
          Thread.NORM PRIORITY);
          CounterThread cThread2=new CounterThread("Thread-2",
32
          Thread.NORM PRIORITY+1);
          CounterThread cThread3=new CounterThread("Thread-3",
33
          Thread.NORM PRIORITY+3):
34
          cThread1.start();
          cThread2.start();
35
          cThread3.start();
36
37
          System.out.println(Thread.currentThread());
```

```
38
           for(int cnt=1;cnt<=5;cnt++) {
              System.out.println("MainThread => "+cnt);
39
40
              try {
                  Thread.sleep(1000):
41
42
              } catch (InterruptedException e) {
43
                  e.printStackTrace();
              }
44
45
           }
46
           printThreadStatus(cThread1, cThread2, cThread3);
           try {
47
48
              cThread1.join();
              cThread3.join();
49
              cThread2.join();
50
           } catch (InterruptedException e) {
51
52
              e.printStackTrace();
53
           }
54
           printThreadStatus(cThread1, cThread2, cThread3);
           System.out.println("MainThread TERMINATED...!!!");
55
56
       }
57
       static void printThreadStatus(CounterThread cThread1,
58
              CounterThread cThread2,
59
              CounterThread cThread3) {
           System.out.println("Thread-1 is Alive => "+cThread1.isAlive());
60
           System.out.println("Thread-2 is Alive => "+cThread2.isAlive());
61
           System.out.println("Thread-3 is Alive => "+cThread3.isAlive());
62
       }
63
64
            ----CounterThreadRunnable.iava----
65
    package com.ameya.threads;
66
67
    public class CounterThreadRunnable implements Runnable {
68
69
70
       private Thread thread;
       public CounterThreadRunnable(String name,int priority) {
71
72
           thread=new Thread(this);
73
           thread.setName(name);
           thread.setPriority(priority);
74
75
           System.out.println(thread);
76
       }
77
       @Override
       public void run() {
78
```

```
79
           for(int cnt=1;cnt<=10;cnt++) {
               System.out.println(thread.getName()+" => "+cnt);
80
 81
               try {
82
                  Thread.sleep(1000):
83
               } catch (InterruptedException e) {
                  e.printStackTrace();
84
               }
85
86
           }
           System.out.println(thread.getName()+" TERMINATED.... !!!");
87
88
        public Thread getThread() {
89
           return thread:
90
        }
 91
92
    }
     -----TestRunnableThread.java-----
93
    package com.ameya.test;
94
95
    import com.ameya.threads.CounterThreadRunnable;
96
97
    public class TestRunnableThread {
98
99
100
        public static void main(String[] args) {
           CounterThreadRunnable cThread1=new
101
           CounterThreadRunnable("Thread-1", 5);
           CounterThreadRunnable cThread2=new
102
           CounterThreadRunnable("Thread-2", 7);
           CounterThreadRunnable cThread3=new
103
           CounterThreadRunnable("Thread-3", 8);
           cThread1.getThread().start();
104
105
           cThread2.getThread().start();
106
           cThread3.getThread().start();
           System.out.println(Thread.currentThread());
107
           for(int cnt=1;cnt<=5;cnt++) {</pre>
108
               System.out.println("MainThread => "+cnt);
109
110
               try {
111
                  Thread.sleep(1000);
               } catch (InterruptedException e) {
112
113
                  e.printStackTrace();
               }
114
115
116
           System.out.println("cThread1 isAlive =>
```

```
"+cThread1.getThread().isAlive());
            System.out.println("cThread2 isAlive =>
117
            "+cThread2.getThread().isAlive());
            System.out.println("cThread3 isAlive =>
118
            "+cThread3.getThread().isAlive());
119
            try {
               cThread1.getThread().join();
120
               cThread2.getThread().join();
121
               cThread3.getThread().join();
122
123
            } catch (InterruptedException e) {
124
                e.printStackTrace();
125
126
            System.out.println("cThread1 isAlive =>
            "+cThread1.getThread().isAlive());
            System.out.println("cThread2 isAlive =>
127
            "+cThread2.getThread().isAlive());
            System.out.println("cThread3 isAlive =>
128
            "+cThread3.getThread().isAlive());
129
            System.out.println("MainThread TERMINATED...!!!");
130
        }
131
132 }
```

133