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**501254**

**I.T. – 5**

**Q. Implement Multithreading in Java.**

**ThreadDemo.java**  
class ThreadDemo extends Thread {  
 private Thread t;  
 private String threadName;  
   
 ThreadDemo( String name){  
 threadName = name;  
 System.out.println("Creating " + threadName );  
 }  
 public void run() {  
 System.out.println("Running " + threadName );  
 try {  
 for(int i = 4; i > 0; i--) {  
 System.out.println("Thread: " + threadName + ", " + i);  
 // Let the thread sleep for a while.  
 Thread.sleep(50);  
 }  
 } catch (InterruptedException e) {  
 System.out.println("Thread " + threadName + " interrupted.");  
 }  
 System.out.println("Thread " + threadName + " exiting.");  
 }  
 public void start ()  
 {  
 System.out.println("Starting " + threadName );  
 if (t == null){  
 t = new Thread (this, threadName);  
 t.start ();  
 }  
 }  
   
}

**TestThread.java**

public class TestThread {  
 public static void main(String args[]) {  
   
 ThreadDemo T1 = new ThreadDemo( "Thread-1");  
 T1.start();  
   
 ThreadDemo T2 = new ThreadDemo( "Thread-2");  
 T2.start();  
 }  
}

**C:\Users\Ashesh\Documents\Prog\OS>java TestThread**

**Creating Thread-1**

**Starting Thread-1**

**Creating Thread-2**

**Starting Thread-2**

**Running Thread-1**

**Thread: Thread-1, 4**

**Running Thread-2**

**Thread: Thread-2, 4**

**Thread: Thread-1, 3**

**Thread: Thread-2, 3**

**Thread: Thread-1, 2**

**Thread: Thread-2, 2**

**Thread: Thread-1, 1**

**Thread: Thread-2, 1**

**Thread Thread-1 exiting.**

**Thread Thread-2 exiting.**