```
package thread ex;
public class Thread ex {
          boolean done = false;
          public Thread_ex(int NumT1, int NumT2) {
                   ^{/*} ^{*} Constructor for the main class, its function is to spawn the
                    * T1 and T2 threads
                   for (int i = 0; i < NumT1; i++) {</pre>
                             new T1().start();
                   for (int i = 0; i < NumT2; i++) {
    new T2().start();</pre>
                   }
          }
          public class T1 extends Thread {
                   /*
* T1 sleeps until done
                   public void run() {
                             System.out.println ("T1 thread started");
while (!done) {
    try {
                                                Thread.sleep(1000);
                                       } catch (InterruptedException ex) {
                                                 System.out.println("Interrupt in T1");
                                       }
                             System.out.println ("T1 thread finished");
          }
          public class T2 extends Thread {
                   /*
* T1 sleeps until done
                   public void run() {
                             System.out.println ("T2 thread started");
                             while (!done) {
                                                Thread.sleep(1000);
                                       } catch (InterruptedException ex) {
                                                System.out.println("Interrupt in T2");
                             }
System.out.println ("T2 thread finished");
                   }
          public static void main(String[] args) {
                   Thread ex tex = new Thread ex(2,2);
                    * Sleep for 5 seconds and kill
                   try {
                             Thread.sleep(5000);
                   } catch (InterruptedException e) {
                   tex.done = true;
                   System.out.println("main finished");
          }
}
T1 thread started T1 thread started
T2 thread started
T2 thread started main finished
T2 thread finished
T2 thread finished
T1 thread finished
T1 thread finished
```

1) What are the advantages of the one-to-one user/kernel thread model? Disadvantages? How about the many-to-many model?

2) What are the 4 options available for handling signals delivered to a multithreaded process? When might you use them?

3) What are the two types of cancellation for threads? When might you use them?

4) What is the issue with fork() and exec()? How can it be handled?