

Assignment_1/Assignment_1_Solution.java

```
1  class Hi implements Runnable {
2      public void run() {
3          for(int i = 1; i <= 5; i++) {
4              System.out.println("Hi");
5              try { Thread.sleep(1000); } catch (Exception e) {}
6          }
7      }
8  }
9
10 class Hello implements Runnable {
11     public void run() {
12         for(int i = 1; i <= 5; i++) {
13             System.out.println("Hello");
14             try { Thread.sleep(1000); } catch (Exception e) {}
15         }
16     }
17 }
18
19 class Main {
20     public static void main(String[] args) {
21         Thread t1 = new Thread(new Hi());
22         Thread t2 = new Thread(new Hello());
23
24         t1.start();
25         try { Thread.sleep(100); } catch (Exception e) {}
26         t2.start();
27     }
28 }
29
30 /* Explain the memory hierarchy
31  * The program is run in Main Memory. However, the loop body may be stored in the
32  * Cache.
33  * The Thread objects and associated data will be in Main memory during runtime.
34  * The file itself is stored in Secondary Storage (like a hard drive or SSD).
35  */
```