

2.1 Write a simple Timer that can periodically print a timeout message.

2.2 Code with Comments

```
package assignments;

import java.util.Timer;

import java.util.TimerTask;
public class Reminder {

    Timer timer;

    public Reminder(int seconds) {
        timer = new Timer();
        timer.schedule(new RemindTask(), seconds*1000);
    }

    class RemindTask extends TimerTask {
        public void run() {
            System.out.println("Time's up!");
            timer.cancel(); //Terminate the timer
        }
    }

    public static void main(String args[]) {
        new Reminder(5);
        System.out.println("Task scheduled.");
    }
}
```

2.3 Explanation of the code

Implement a subclass of Timer task. The main method contains the code that performs the task. The subclass is named as RemindTask. Created a thread by instantiating the Timer class. Instantiate the timer task object new RemindTask(). Scheduled the timer task for execution.

Commented [PT1]:

2.4 Output

```
Acadgild ▸ src/main/java ▸ assignments ▸ Reminder ▸ RemindTask ▸
1 package assignments;
2
3 import java.util.Timer;
4
5 import java.util.TimerTask;
6 public class Reminder {
7
8     Timer timer;
9
10 public Reminder(int seconds) {
11     timer = new Timer();
12     timer.schedule(new RemindTask(), seconds*1000);
13 }
14
15 class RemindTask extends TimerTask {
16     public void run() {
17         System.out.println("Time's up!");
18         timer.cancel(); //Terminate the timer
19     }
20 }
21
22 public static void main(String args[]) {
23     new Reminder(5);
24     System.out.println("Task scheduled.");
25 }
26 }
27
```

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<terminated> Reminder [Java Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (24-Nov-2018, 10:16:18 PM)

Task scheduled.
Time's up!