```
1. Problem statement: Write a simple Timer that can periodically print a timeout message.
2. code with comments:
package com.prac.go;
import java.util.Date;
import java.util.Timer;
import java.util.TimerTask;
public class TestMethod extends TimerTask {
  @Override
  public void run() {
    System.out.println("Timer task started at:"+new Date());
    completeTask();
    System.out.println("Timer task finished at:"+new Date());
  }
  private void completeTask() {
    try {
      //assuming it takes 20 secs to complete the task
      Thread.sleep(20000);
    } catch (InterruptedException e) {
      e.printStackTrace();
    }
  }
  public static void main(String args[]){
    TimerTask timerTask = new TestMethod();
    //running timer task as daemon thread
```

```
Timer timer = new Timer(true);
    timer.scheduleAtFixedRate(timerTask, 0, 10*1000); // Note: Java Timer object is scheduled to run
the task every 10 seconds
    System.out.println("TimerTask started");
    //cancel after sometime
    try {
      Thread.sleep(120000);
    } catch (InterruptedException e) {
      e.printStackTrace();
    }
    timer.cancel();
    System.out.println("TimerTask cancelled");
    try {
      Thread.sleep(30000);
    } catch (InterruptedException e) {
      e.printStackTrace();
    }
  }
}
3. Explanation of the code:
Running timer task as daemon thread. Java Timer object is scheduled to run the task every 10 seconds
cancel after sometime
4. Result flow in detail:
```

Running timer task as daemon thread. Java Timer object is scheduled to run the task every 10 seconds

cancel after sometime

5. Output screenshot:

```
1 package com.prac.go;
  30 import java.util.Date;
  4 import java.util.Timer;
  5 import java.util.TimerTask;
    public class TestMethod extends TimerTask €
  8
  90
         @Override
△10
         public void run() {
 11
             System.out.println("Timer task started at: "+new Date());
 12
             completeTask();
 13
             System.out.println("Timer task finished at: "+new Date());
 14
 15
         private void completeTask() {
 169
 17
             try {
 18
                  //assuming it takes 20 secs to complete the task
 19
                 Thread.sleep(20000);
 20
             } catch (InterruptedException e) {
 21
                 e.printStackTrace();
 22
 23
         }
 24
 25⊝
         public static void main(String args[]){
26
             TimerTask timerTask = new TestMethod();
27
             //running timer task as daemon thread
28
             Timer timer = new Timer(true);
🙎 Problems @ Javadoc 🚇 Declaration 📮 Console 🛭
TestMethod [Java Application] C:\Program Files\Java\jdk1.8.0_111\bin\javaw.exe (26-Nov-2018, 11:28:47 PM)
Timer task finished at: Mon Nov 26 23:29:08 IST 2018
```

Timer task finished at:Mon Nov 26 23:29:08 IST 2018
Timer task started at:Mon Nov 26 23:29:08 IST 2018
Timer task finished at:Mon Nov 26 23:29:28 IST 2018
Timer task started at:Mon Nov 26 23:29:28 IST 2018