

Code:

```
import java.util.Timer;
import java.util.TimerTask;
import java.awt.Toolkit;

/**
 * Schedule a task that executes once every second. Beep every second.
 *
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 * @version 0.1 25 November 2020
 */

public class AnnoyingBeep {
    Toolkit toolkit;
    Timer timer;

    public AnnoyingBeep(int tttt, int sec) {
        toolkit = Toolkit.getDefaultToolkit();
        timer = new Timer();
        // Schedules the specified task for repeated fixed-delay
        // execution, beginning after the specified delay.
        // Subsequent executions take place at approximately
        // regular intervals separated by the specified period.
        timer.schedule(new RemindTask(tttt), 0 * 1000, // initial delay
            sec * 1000); // subsequent interval: 1 sec
    }

    /**
     * Beep every second
     */
    class RemindTask extends TimerTask {
        int tttt;

        public RemindTask(int b) {
            this.tttt = b;
        }

        public void run() {
            // if (tttt == 2) {
            // toolkit.beep();
            // System.out.format("Beep!%n");
            // }
        }
    }
}
```

```

        // System.out.format("Beep!\n");
        // }
        // else {
        // toolkit.beep();
        // System.out.format("Time's up!\n");
        // // timer.cancel(); //Not necessary because we call System
m.exit

        // System.exit(0); // Stops the AWT thread (and everything
else)

        for (int i = 0; i < tttt; i++) {
            toolkit.beep();
            System.out.format("Beep!\n");
        }
        // else {
        // toolkit.beep();
        System.out.format("Time's up!\n");
        // timer.cancel(); //Not necessary because we call System.e
xit

        System.exit(0); // Stops the AWT thread (and everything els
e)

    }
}

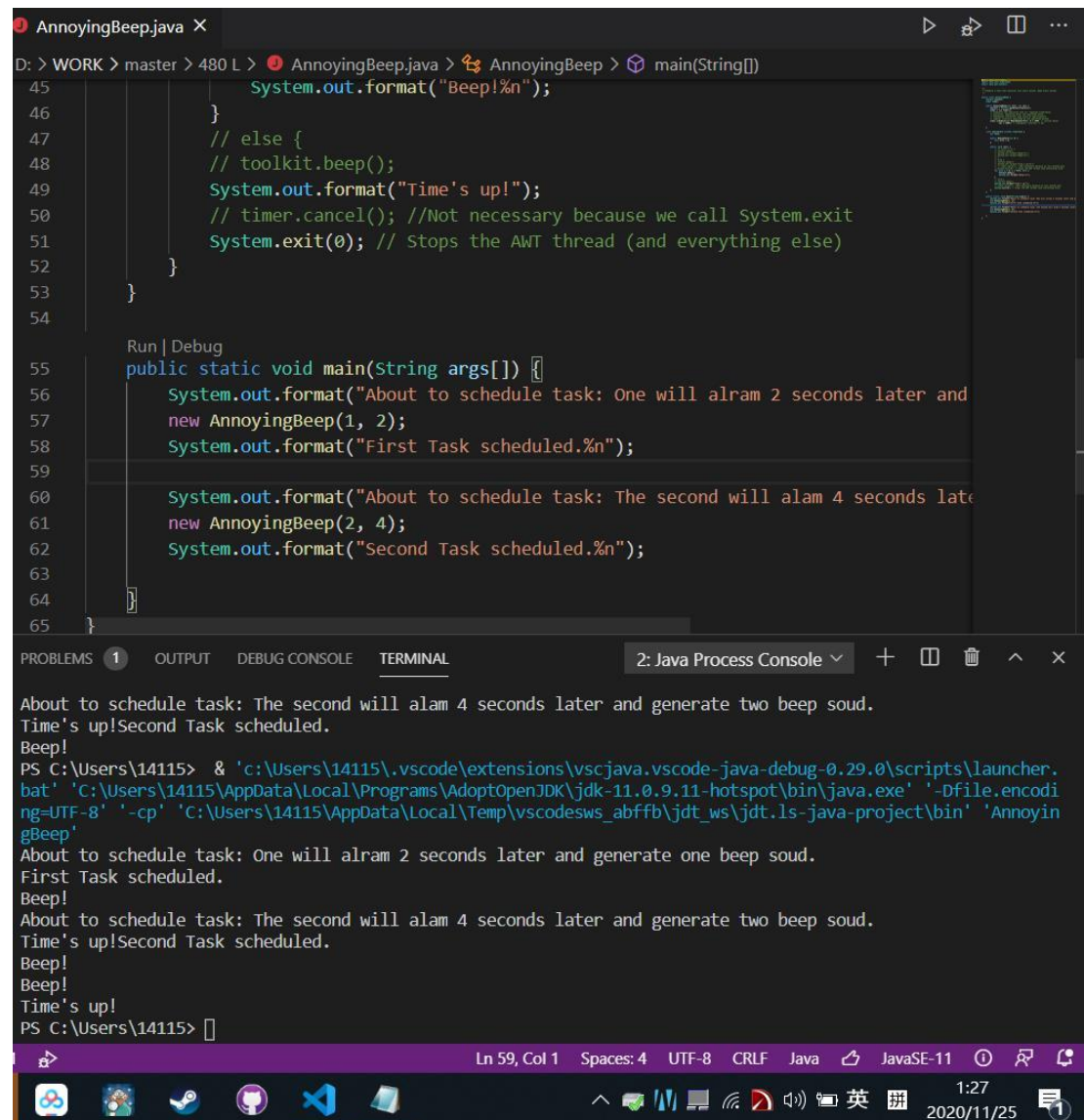
/**
 *
 * @param args arguments
 *
 *          run the program
 */
public static void main(String args[]) {
    System.out.format("About to schedule task: One will alram 2 sec
onds later and generate one beep soud.\n");
    new AnnoyingBeep(1, 2);
    System.out.format("First Task scheduled.\n");

    System.out.format("About to schedule task: The second will alam
4 seconds later and generate two beep soud.\n");
    new AnnoyingBeep(2, 4);
    System.out.format("Second Task scheduled.\n");

}
}

```

Output :



The screenshot shows a VS Code editor window with the file `AnnoyingBeep.java` open. The code defines a `main` method that schedules two tasks using `AnnoyingBeep`. The first task is scheduled for 2 seconds later and generates one beep sound. The second task is scheduled for 4 seconds later and generates two beep sounds. The terminal output shows the execution of the program, including the messages "About to schedule task: The second will alarm 4 seconds later and generate two beep sound.", "Time's up!Second Task scheduled.", "Beep!", and "First Task scheduled.".

```
45         System.out.format("Beep!\n");
46     }
47     // else {
48     //     toolkit.beep();
49     System.out.format("Time's up!");
50     // timer.cancel(); //Not necessary because we call System.exit
51     System.exit(0); // Stops the AWT thread (and everything else)
52 }
53 }
54
55 public static void main(String args[]) {
56     System.out.format("About to schedule task: One will alarm 2 seconds later and
57     new AnnoyingBeep(1, 2);
58     System.out.format("First Task scheduled.\n");
59
60     System.out.format("About to schedule task: The second will alarm 4 seconds later
61     new AnnoyingBeep(2, 4);
62     System.out.format("Second Task scheduled.\n");
63
64 }
65 }
```

Run | Debug

2: Java Process Console

About to schedule task: The second will alarm 4 seconds later and generate two beep sound.
Time's up!Second Task scheduled.
Beep!
PS C:\Users\14115> & 'c:\Users\14115\.vscode\extensions\vscjava.vscode-java-debug-0.29.0\scripts\launcher.bat' 'C:\Users\14115\AppData\Local\Programs\AdoptOpenJDK\jdk-11.0.9.11-hotspot\bin\java.exe' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\14115\AppData\Local\Temp\vscodesws_abffb\jdt_ws\jdt.ls-java-project\bin' 'AnnoyingBeep'
About to schedule task: One will alarm 2 seconds later and generate one beep sound.
First Task scheduled.
Beep!
About to schedule task: The second will alarm 4 seconds later and generate two beep sound.
Time's up!Second Task scheduled.
Beep!
Beep!
Time's up!
PS C:\Users\14115>

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