```java
-------------------OutOfMemoryErrorDemo.java---------
package com.ameya.test;

import java.util.ArrayList;
import java.util.List;
import java.util.Timer;
import java.util.TimerTask;
/*
 -Xms1024m -Xmx1024m -verbose:gc -XX:+UseSerialGC
  -Xloggc:c:/work/sapient/dumps/gcdump.log -XX:+PrintGCDetails
  -Xlog:gc*::time


-Xms1024m -Xmx1024m -XX:+HeapDumpOnOutOfMemoryError
 -XX:HeapDumpPath=c:\work\sapient\dumps\heapdump.hprof



C:\Users\Ameya>jps -l
4832 jdk.jcmd/sun.tools.jps.Jps
6900 Eclipse
8020
org.springframework.ide.vscode.boot.app.BootLanguageServerBootApp
2952 org/netbeans/Main
7976 com.ameya.test.OutOfMemoryErrorDemo

C:\Users\Ameya>jcmd 7976 GC.heap_dump
c:\sapient\work\dumps\heapdump.hprof
 */
public class OutOfMemoryErrorDemo {
    List<String> list=new ArrayList<String>();
    public void addData(String someData) {
        list.add(someData);
    }
    static class ReportTask extends TimerTask{
        OutOfMemoryErrorDemo demo;
        public ReportTask(OutOfMemoryErrorDemo demo) {
            this.demo=demo;
        }
        @Override
        public void run() {
            for(int i=0;i<100000;i++) {

```

```java
                    this.demo.addData("xa09jkldjaioduf9as09dfioausdfjas;ldfj0
                    -fklajsdklfj alsdfjklasdjfklasjdlkfj asldkfjaskldfjklasjdfkl
                    asdklfjaskldfjklasdfjklas dfjasd fkljaskldfjklasdjfk
                    jdsjfklasdjfklasdfl j"+Math.random());
37            }
38        }
39    }
40
41    public static void main(String[] args) {
42        OutOfMemoryErrorDemo demo=new OutOfMemoryErrorDemo();
43        TimerTask task=new ReportTask(demo);
44        Timer timer=new Timer();
45        timer.scheduleAtFixedRate(task, 500, 500);
46
47    }
48
49 }
50
```