

WEEK 11 LAB PROGRAM 9.

class ~~new~~ ThreadDemo implements Runnable

{

Thread t;

String name;

long time;

~~new~~ ThreadDemo(String name, long time)

{

time = this.time;

name = this.name;

t = new Thread(this, name);

t.start();

}

public void run()

{

try

{

for(int n=10; n>0; n--)

{

Thread.sleep(time);

}

}

catch (InterruptedException ie)

System.out.print("Exception: child");

}

}

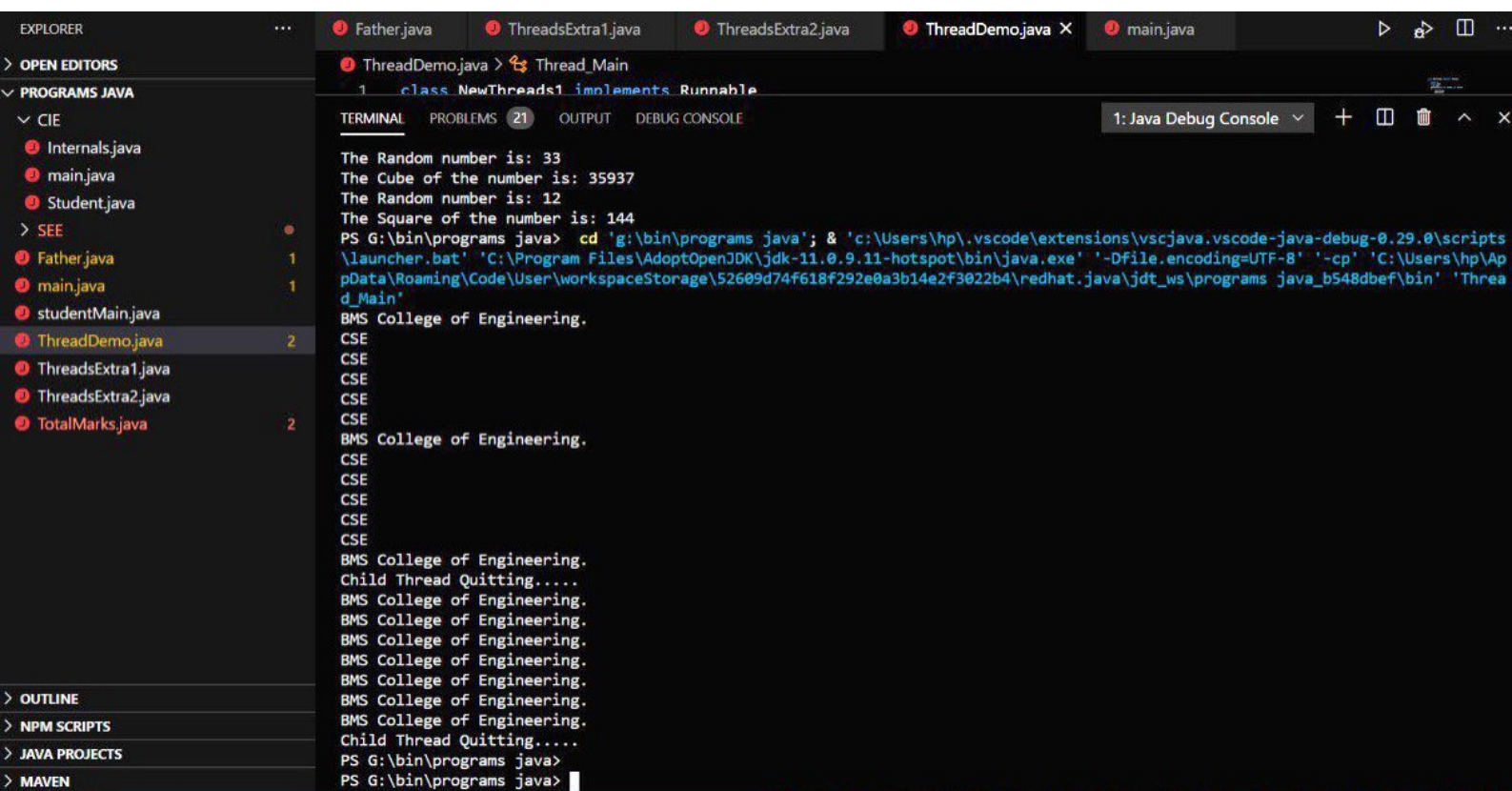
```
class main
```

```
{  
    public static void main (String args [])
```

```
{  
    ThreadDemo n1 = new ThreadDemo  
        ("BMS College of Engineering");  
    ThreadDemo n2 = new ThreadDemo  
        ("CSE");
```

```
}
```

```
}
```



The screenshot shows an IDE with a dark theme. The Explorer panel on the left lists files under 'PROGRAMS JAVA' and 'CIE'. The main editor displays the code for 'ThreadDemo.java', which defines a 'NewThreads1' class implementing 'Runnable'. The code includes a constructor 'NewThreads1(String thname, long thtime)' and a 'run()' method. The 'run()' method contains a try-catch block with a loop that prints the thread's name and sleeps for a specified time. The code is as follows:

```
1 class NewThreads1 implements Runnable
2 {
3     Thread t;
4     String name;
5     long time;
6     NewThreads1(String thname, long thtime)
7     {
8         time = thtime;
9         name = thname;
10        t = new Thread(this, name);
11        t.start();
12    }
13    public void run()
14    {
15        try
16        {
17            for(int n=10; n>0; n--)
18            {
19                System.out.println(t.getName());
20                Thread.sleep(time);
21            }
22        }
23        catch (InterruptedException ie)
24        {
25            System.out.println("Child Thread Interrupted");
26        }
27        System.out.println("Child Thread Quitting.....");
28    }
29 }
30
```

EXPLORER

OPEN EDITORS

PROGRAMS JAVA

- CIE
 - Internals.java
 - main.java
 - Student.java
- SEE
 - Father.java 1
 - main.java 1
 - studentMain.java
 - ThreadDemo.java 2
 - ThreadsExtra1.java
 - ThreadsExtra2.java
 - TotalMarks.java 2

OUTLINE

NPM SCRIPTS

JAVA PROJECTS

MAVEN

ThreadDemo.java > Thread_Main

```
13 public void run()
14 {
15     try
16     {
17         for(int n=10; n>0;n--)
18         {
19             System.out.println(t.getName());
20             Thread.sleep(time);
21         }
22     }
23     catch(InterruptedException ie)
24     {
25         System.out.println("Child Thread Interrupted");
26     }
27     System.out.println("Child Thread Quitting.....");
28 }
29
30
31 class Thread_Main
32 {
33     Run | Debug
34     public static void main(String args[])
35     {
36         NewThreads1 n1=new NewThreads1("BMS College of Engineering.",10000);
37         NewThreads1 n2=new NewThreads1("CSE",2000);
38     }
39 }
```