

```
import java.lang.Math;
import java.util.Scanner;

class Sin extends Thread {
    public double deg;
    public double res;
    public Sin(int degree) {
        deg = degree;
    }
    public void run() {
        System.out.println("Starting to execute SIN of - " + deg);
        double Deg2Rad = Math.toRadians(deg);
        res = Math.sin(Deg2Rad);
        System.out.println("Sin Complete - Result = " + res);
    }
}

class Cos extends Thread {
    public double deg;
    public double res;
    public Cos(int degree) {
        deg = degree;
    }
    public void run() {
        System.out.println("Starting to execute COS of - " + deg);
        double Deg2Rad = Math.toRadians(deg);
        res = Math.cos(Deg2Rad);
        System.out.println("Cos Complete - Result = " + res);
    }
}

class Tan extends Thread {
    public double deg;
    public double res;
    public Tan(int degree) {
        deg = degree;
    }
    public void run() {
        System.out.println("Starting to execute TAN of - " + deg);
        double Deg2Rad = Math.toRadians(deg);
        res = Math.tan(Deg2Rad);
        System.out.println("Tan Complete - Result = " + res);
    }
}
```

```
public class mathsThread {  
    public static void main(String[] args) {  
        Scanner getDeg = new Scanner(System.in);  
        System.out.println("Enter value for SIN :");  
        Sin st = new Sin(getDeg.nextInt());  
        System.out.println("Enter value for COS :");  
        Cos ct = new Cos(getDeg.nextInt());  
        System.out.println("Enter value for TAN :");  
        Tan tt = new Tan(getDeg.nextInt());  
        getDeg.close();  
        st.start();  
        ct.start();  
        tt.start();  
        try {  
            st.join();  
            ct.join();  
            tt.join();  
            double z = st.res + ct.res + tt.res;  
            System.out.println("Sum of SIN COS TAN = " + z);  
        }  
        catch(Exception e) {  
            System.out.println(e);  
        }  
    }  
}
```

```
File Edit Selection View Go Run Terminal Help
mathsThread.java - Lab 6 - Visual Studio Code

EXPLORER
  OPEN EDITORS
    mathsThread.java Sub...
  LAB 6
    idea
    code
    out
  Submission
    src
      mathsThread.java
    Lab6 C19704439 Conor...
    Submission.iml
    Lab 6.iml
    lab06.pdf

OUTLINE
  JAVA PROJECTS
    Lab 6
      Submission/src
        mathsThread
      JRE System Library (j...
      Referenced Libraries
  MAVEN

mathsThread.java
  Submission > src > mathsThread.java > Sin > run()
  40      System.out.println("Tan Complete - Result = " + res);
  41    }
  42  }
  43  public class mathsThread {
  44      Run | Debug
  45      public static void main(String[] args) {
  46          Scanner getDeg = new Scanner(System.in);
  47          System.out.println("Enter value for SIN :");
  48          Sin st = new Sin(getDeg.nextInt());
  49          System.out.println("Enter value for COS :");
  50          Cos ct = new Cos(getDeg.nextInt());
  51          System.out.println("Enter value for TAN :");
  52          Tan tt = new Tan(getDeg.nextInt());
  53          getDeg.close();
  54          st.start();
  55          ct.start();
  56          tt.start();
  57      }
  58  }

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
  Java Process Console + - [ ] [x] [x]

Enter value for SIN :
45
Enter value for COS :
55
Enter value for TAN :
65
Starting to execute SIN of - 45.0
Starting to execute COS of - 55.0
Starting to execute TAN of - 65.0
Cos Complete - Result = 0.5735764363510462
Sin Complete - Result = 0.7071067811865475
Tan Complete - Result = 2.1445069205095586
Sum of SIN COS TAN = 3.425190138847152
PS C:\Users\Conor\OneDrive - Technological University Dublin\Year 3\Networking Programming\Lab 6> 
```