

Lab Goal : This lab was designed to teach you how to instantiate an object, pass parameters, calculate values, and display the results.

Lab Description : Calculate the slope of a line when given 2 points. The formula for the slope of a line is as follows :: $m = \frac{y_2 - y_1}{x_2 - x_1}$

Sample Data:

```
1 9 14 2
1 7 18 3
6 4 2 2
4 4 5 3
1 1 2 9
```

Files Needed ::

```
Line.java
LineRunner.java
```

Sample Output :

```
the slope is -0.54
the slope is -0.24
the slope is 0.50
the slope is -1.00
the slope is 8.00
```

FORMATTING OUTPUT

```
double dec = 9.541724;

out.printf("%.3f\n",dec);           //outs 9.542
    //printf is a void method

out.println(String.format("%.3f",dec)); //outs 9.542
    //format is a String return method
    //format is useful when writing toString() methods
```