**A+ Computer Science Walking The Dog**

**Lab Goal :** This lab was designed to teach you more about objects, input, output formatting, and the Math class.

**Lab Description :** Every day, Janet walks her tiny dog Picasso. Picasso sometimes turns around and goes in the opposite direction (-). From each set of data, calculate the total to determine how far Janet ends up from her house when Picasso stops walking and waits to be carried home. Each number represents the number of blocks walked before Picasso changed direction. If the answer is zero, then they ended up at home when Picasso stopped walking. Any other answer represents how far from the house they are. If Picasso went too far after turning, the answer may end up negative. We need the actual number of blocks from home.

**Sample Data :**

4 -8 5 -3

10 -4 -2 5

5 -11 18 -6

**Sample Output :**

**Files Needed ::**

**Home.java**

**HomeRunner.java**

Enter X1 :: 4

Enter Y1 :: -8

Enter X2 :: 5

Enter Y2 :: -3

distance == 2

Enter X1 :: 10

Enter Y1 :: -4

Enter X2 :: -2

Enter Y2 :: 5

distance == 9

Enter X1 :: 5

Enter Y1 :: -11

Enter X2 :: 18

Enter Y2 :: -6

distance == 6

***FORMATTING OUTPUT***

**//printf is a void method**

**System.out.printf(**"**%.3f\n**"**,9.541724); //outs 9.542**

**//format is a String return method**

**System.out.println(String.format(**"**%.3f**"**,9.541724)); //outs 9.542**