**(Erase this and put your name here.)**

Computer Science 131

Laboratory Assignment #1

**Exercise 1:** Draw your answers in the boxes below after you print out this lab.

A.

B.

C.

**Exercise 2:** Draw your answers in the boxes below after you print out this lab.

A.

B.

**Exercise 3:**

A. (Erase this and type your answer ssss

B. (Erase this and type your answer here.)

C. (This is a BONUS exercise)

**Exercise 4:**

A. (Erase this and type your answer here.)

B. (Erase this and type your answer here.)

**Exercise 5:** (Erase this and type your answer here.)

**Exercise 6:** (Erase this and type your answer here.)

**Exercises 7:**

Walk Number: Distance:

1

2

3

4

5

**Exercise 8:**

Walk Number: Distance Squared:

1

2

3

4

5

Mean Distance Squared = (Erase this and list your value here.)

RMS Distance = (Erase this and list your value here.)

**Exercise 9:**

Observed RMS Distance = (Erase this and list your value here.)

Expected RMS Distance = (Erase this and list your value here.)

% Error = (Erase this and list your value here.)

**Exercise 10:**

1 Run / Experiment 5 Runs / Experiment 20 Runs / Experiment

Exp. RMS Dist. %Error RMS Dist. %Error RMS Dist. %Error

1

2

3

4

5

**Exercise 11:** (Erase this and type your answer here.)

**Exercise 12:** (Erase this and type your answer here.)

**Exercise 13:** (Erase this and type your answer here.)

**Exercise 14:** (Erase this and type your answer here.)

**Exercise 15:** (Erase this and type your answer here.)

**Exercise 16:**

Average Standard

Runs/Exp. RMS Dist. Deviation

1

5

20

(Erase this and type your answer here.)

**Exercise 17:**

Percentage of results

within 10% of

Runs/Exp. expected value

1

5

20

**Exercise 18:** (Erase this and type your answer here.)

**Exercise 19:** (Erase this and type your answer here.)

**Exercise 20:** (Erase this and type your answer here.)

**Exercise 21:** (Erase this and type your answer here.)

**Exercise 22:**

Average Standard

Walk Type Runs/Exp. RMS Dist. Deviation

City 20

Country 20

(Erase this and type your answer here.)

**Exercise 23:** (Erase this and type your answer here.)