



## Lesson 5 Buy Low, Sell High

### Worksheet

#### K-W-L Chart

What I Know	What I Wonder	What I Learnt

**New Commands:** make a list of all the new Python commands you learn throughout the lesson

## Activity 1:

Comment and run the program below:

```
1. import random
2.
3. price_a = random.randint(100, 200)
4. print("The traded price now is", price_a)
5.
6. order = int(input("Your posted price: "))
7.
8. price_b = random.randint(100, 200)
9. print("The traded price now is", price_b)
10.
11. if order > price_b:
12.     print("Current price is lower than your posted price. Buy it.")
13.
14. elif order < price_b:
15.     print("Current price is higher than your posted price. Sell it.")
16.
17. else:
18.     print("No transaction.")
```

## Questions:

- What is the control structure?
- What does **'import random'** mean?
- What are the values of the variable **'price\_a'** and **'price\_b'**?

Draw a flowchart for the program above. Refer to last lessons worksheets to ensure you are using the proper shapes.

**Activity 2:**

**Task 1:** Comment the code. Briefly explain the function.

**Task 2:** Investigate the conditions of the statements. How does the program compare the posted price with the traded price?

**Task 3:** What is the condition of 'else'. Write down its condition.

**Activity 3:**

Use only **if** statements instead to rewrite the example program. Investigate the difference between using the **if** statement syntax and using the **if...elif...else** statement.

**Extension:**

Make a simple calculator that takes in two numbers and asks the user what mathematical operation they would like to perform. Utilize the **if** statements taught in this lesson to perform the decision making.