Obect Orientation and Design Patterns
Lab Sheet – Week 2

Exercise 1 – Factory Method

Get the code from the lecture up and running and carefully commented, showing that you understand whats happening within the code.

Exercise 2 – Factory Method

Leveraging the code from todays notes, adapt the code using the Factory pattern to handle hexadecimal lists as well as integer and double lists.

For example:
1 2 3 4 5 6 7 8 …..
1.1 1.2 1.4 0.1 0.9 ………
0xFF, 0xAF45, …….

Exercise 3 – Written Question

a. Provide three examples of when you would use the Factory Method Pattern (Hint: page108 in text book.)
b. List the participants in the Factory method pattern (i.e. Product, ConcreteProduct, Creator, ConcreteCreator).
c. Map the programs from the lecture notes to the participants listed in part b above. NOTE: You can use a simple table in a word document to list the participants in one column as defined above and the list of program names that map to these from the lecture notes in the second column.