

1. We have discussed Open Closed Principle using computer parts example in the lecture and implemented the whole program in last week's lab. Now you will add a new class to the program:

Iterate

2. This class will have two methods **totalPrice** and **display**. Moreover, **Iterate** will have an array attribute of type **Part** which will be set in the class's constructor.
3. **totalPrice** method is the one we know of. Some of you have implemented it in the Main class or in the **Part** class. Now it will be in the new **Iterate** class.
4. The **display** method will print the names of the computer parts in your part array. This also means that **Part** class will have a new attribute, **name**.
5. Write a new main to test your program
 - a. Create an array of parts which makes up a computer
 - b. Set different price policies for each part and set them.
 - c. Display the parts in the array through your new class.
 - d. Calculate the price of the computer through your new class.
6. Lastly, draw a complete UML class diagram of your program on a piece of paper and return to the TA.

Hint: For class diagram, you can get help from the week 2 slides. There are detailed explanation on UML notations.