Section 1:

What is the Singleton Pattern? --------Because the program needs, sometimes we only need a certain class to keep one object at the same time, we do not want to have more objects, at this time, we should consider the design of the Singleton Pattern. To be more precise, a singleton class is a class that can have only one object(an instance of the class) at a time.

What you did to implement this class as a Singleton?--------- The characteristics of the Singleton Pattern are First the singleton pattern can have only one instance. Second, the singleton class must create its own unique instance. Third, the singleton class must provide this instance to other objects. In Database class, I have make a private constructor restricted to this class itself.Then, write a static getinstance() method to create instance of Database class.

What this has meant for your usage of the class in the rest of the code?-----------when I call getInstance() method, it creates an object of the class and return it to the variable. Since object is static, it is changed from null to some object. Therefore, If I want to call getInstance() method again, since object is not null, it is returned to the variable, instead of instantiating the Database class.

Section 2:

How I implemented my iterator?---------------In Database class, because there is an object called internalArray appears which its type is an arraylist. I create an iterator which provides methods for handling elements in arraylist and using the for loop to get each element.And using next() to get a next element from the list and hasNext() to check whether we get elements inside the list or not.

How it works?--------------First to generate an iterator object which can be used by for loop to move through the list, Collection or set. So that it can separate the operation of the traversal sequence from the underlying sequence therefore to remove or get or check the elements from the collection during an iteration.

why it is useful?--------------Iterator in java supports both read as well as remove operations. If you are using for loop and you try to use the remove method to the collection. Then you will get an exceptions which means that you cannot update(add/move) the Collection however with the help of the Iterator you can easily update Collection.

Section 5:

The quality of your code and design --------------When I design the code of each class, I write the comment on the top of each method or data structure in order to make it clear to me what function is this method provide and to make others clear about my code as well.I am sure that my code is not perfect and there are more easier way to implement the method. But it perform well and follow the standard conventions which the function it suppose to be.

How well your explanation matches what you did ------------- When I try to implement the first validate method which is to omit the line that started at the capital letter in validator class. The first time I write the code is the wrong one, I implement the way that to accept the line started at the capital letter, later, when i check it in the main function, It gave the result in a wrong way. Therefore, I say one thing but actually I have done reverse one.