Collections Level 1

1. Create a method that accepts the List <String> Object and display all the elements in the given list without using Iterator or ListIterator. (Confirm that List is not empty, if empty it should not process the elements and the result should be "List is Empty")

```
public void showElements(List<String> list){

        //Write Your Logic
}
```

Hint:

1. To process elements from the List use one of the features of Java 1.5
2. Use List API method to find "List is empty"

2. Create a method that accepts an array of String Object and sort the elements. The elements in the left half should be completely lowercase and the elements in the right half should be upper case.

```
public String[] getResults(String names[]){

        //Write your logic

}
```

Hint:

1. Convert the String array object to List and sort the elements by using Collections API class.
2. Convert the left half elements into lowercase and right half to upper case by processing elements from the List.

3. Create a method that accepts an array of Integer Object and should return Map<Integer, Integer>. In Map, key is array element and value is Cube of key element.

```
public Map<Integer,Integer>  getMap(Integer numbers[]){

        //Write your logic

}
```

Hint:

1. Process the elements from array and find Cube of element using Math class API.
2. Store element and cube values into Map Object.

4. Create a Method that accepts Set<String>, name (String) and process the elements. While processing check each element with name, if both are equal then remove the element from the set. And return the Set object (If name is not present in the Set, display message as “Name is not found”)

```
public Set<String> checkName(Set<String> set, String name){

        //Write your logic
}
```

Hint:

1. Process the Elements from the Set by using Iterator Interface
2. Compare content of element with name by String API method

5. Create a Method that accepts Map<Integer,String> and process the elements and display the result as

Example:

1001 = Manoj

1002 = Krish.

```
public void  viewElements(Map<Integer, String> map){

                //Write your logic
}
```

Don’t try to get the key values first and corresponding value from the map.

Hint :

1. Process the elements from Map object using entrySet( ) method.