Given a TreeMap<Long, Contact> which has phone numbers for keys and contact objects for values.

## Write solutions to

- a. Fetch all the keys and print them,
- b. Fetch all the values and print them
- c. Print all key-value pairs

## Note:

- a) Contacts should be stored in descending order of phone number
- b) Contact Class:
  - PhoneNumer: <long>
  - Name: <String>
  - Email: <String>
  - Gender: <Enum>

 Write an application to store 10 unique product objects. In case there is an attempt to add a duplicate product, it should be silently rejected. Hint: Use HasSet or TreeSet

Extra(optional): Use ArrayList in the above solution. (This is optional)

3) Store at least 10 Employee Objects in an TreeSet<Employee>. When the application runs the user should be asked to select one of the options upon which you will print the employee details in a sorted manner.

## For E.g.

Run Application:

- a) ID
- b) Name
- c) Department
- d) Salary

Your choice: b

<Should print all the employee's details sorted by name>

4) Given a LinkedList of Objects representing date of birth's (use any inbuild java class to represent date), print the date's along with the message: Your date of Birth is DD-MM-YYYY, and it (was or was not) a leap year.

E.g.

a) For the date 23-12-2000

Your date of birth is 23-12-2000 and it was a leap year

c) For the date 23-12-2001

Your date of birth is 23-12-2000 and it was not a leap year

**Note**: You need to access the Dates in the reverse order. I.e. start from the last object and move towards the first object