Java Collection Assignment

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

* Fetch all the keys and print them
* Fetch all the values and print them
* Print all key-value pairs

import java.util.\*;

enum Gender{

FEMALE, MALE;

}

class Contact{

String Name;

String Email;

Enum Gender;

public Contact(String Name,String Email, Enum Gender)

{

this.Name = Name;

this.Email = Email;

this.Gender = Gender;

}

}

public class C1 {

public static void main(String[] args)

{

Map<Long,Contact> mp = new TreeMap<Long,Contact>();

Contact c1 = new Contact("Yashoda","yashoda@gmail.com",Gender.FEMALE);

Contact c2 = new Contact("Haritha","haritha@gmail.com",Gender.FEMALE);

Contact c3 = new Contact("John","john8@gmail.com",Gender.MALE);

mp.put(9847573827L, c1);

mp.put(9847573527L, c2);

mp.put(9847575627L, c3);

//fetching all the keys

System.out.println("The Keys Present in the Map:");

for(Map.Entry<Long, Contact> e:mp.entrySet()) {

Long Key = e.getKey();

//Contact c = e.getValue();

System.out.println(Key);

/\*System.out.println(c.Name+" "+c.Email+" "+c.Gender);

System.out.println("---------------------");\*/

}

System.out.println("---------------------");

//fetching all the values

System.out.println("The Values Present in the Map:");

for(Map.Entry<Long, Contact> e:mp.entrySet()) {

//Long Key = e.getKey();

Contact c = e.getValue();

System.out.println(c.Name+" "+c.Email+" "+c.Gender);

/\*System.out.println(c.Name+" "+c.Email+" "+c.Gender);

System.out.println("---------------------");\*/

}

//printing all key value pairs

for(Map.Entry<Long, Contact> e:mp.entrySet()) {

Long Key = e.getKey();

Contact c = e.getValue();

System.out.println("---------------------");

System.out.println(Key+" Details");

System.out.println(c.Name+" "+c.Email+" "+c.Gender);

}

}

}

1. 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.

import java.util.\*;

public class C2 {

public static void main(String[] args) {

// TODO Auto-generated method stub

HashSet<String> hs = new HashSet<String>();

hs.add("Apple");

hs.add("Samsung");

hs.add("Karbon");

hs.add("Oppo");

hs.add("Vivo");

hs.add("Apple");

hs.add("Micromax");

hs.add("RedMi");

hs.add("Nokia");

hs.add("Sony");

/\*Traversing elements

Iterator<String> itr = hs.iterator();

while(itr.hasNext())

{

System.out.println(itr.next());

}\*/

System.out.println(hs);

}

}