Collections In Java

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1. Write Java code to define List . Insert 5 floating point numbers in List, and using an iterator, find the sum of the numbers in List.

   ANS: Filename- List.java

2. Write a method that takes a string and returns the number of unique characters in the string.

   ANS: Filename- Unique.java

3. Write a method that takes a string and print the number of occurrence of each character characters in the string.

   ANS: Filename- Occurence.java

4. Write a program to sort HashMap by value.

   ANS: Filename- HashmapValueSort.java

5. Write a program to sort Employee objects based on highest salary using Comparator. Employee class{ Double Age; Double Salary; String Name.

   ANS: Filename- EmployeeMain.java

```
PROBLEMS 4  OUTPUT  DEBUG CONSOLE  TERMINAL

prashant@prashant:exercises (Collections_In_Java)$ javac EmployeeMain.java
prashant@prashant:exercises (Collections_In_Java)$ java EmployeeMain
Unsorted
age= 20 name= Prashant salary 10000
age= 20 name= Shubham salary 12300
age= 20 name= Ankit salary 51010

Sorted by Salary
age= 20 name= Ankit salary 51010
age= 20 name= Shubham salary 12300
age= 20 name= Prashant salary 10000
prashant@prashant:exercises (Collections_In_Java)$
```

6. Write a program to sort the Student objects based on Score , if the score are same then sort on First Name . Class Student{ String Name; Double Score; Double Age.

   ANS: Filename- SortStudent.java

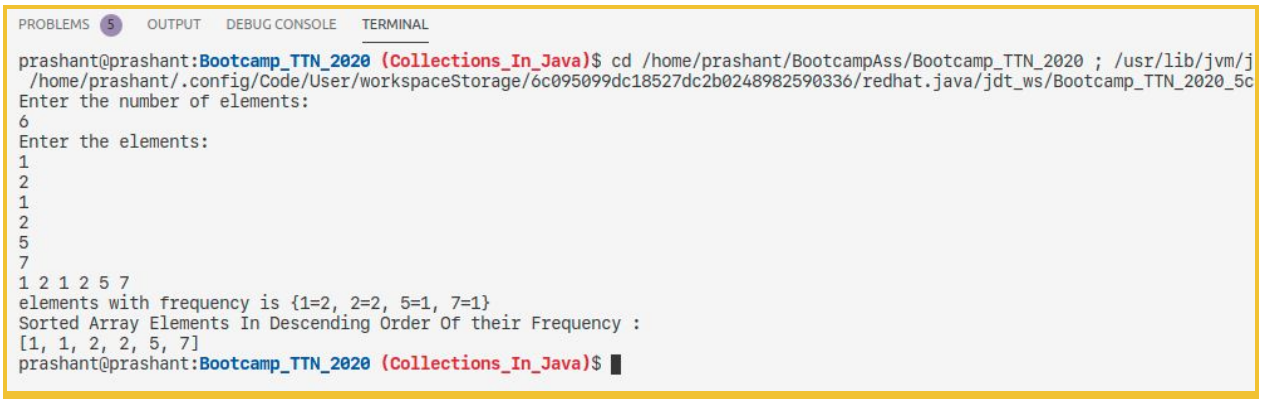
```
PROBLEMS 4  OUTPUT  DEBUG CONSOLE  TERMINAL

prashant@prashant:Bootcamp_TTN_2020 (Collections_In_Java)$ cd /home/prashant/BootcampAss/Bootcamp_TTN_
 /home/prashant/.config/Code/User/workspaceStorage/6c095099dc18527dc2b0248982590336/redhat.java/jdt_ws
Unsorted
age = 20  name= Prashant salary 100
age = 30  name= Shubham salary 60
age = 30  name= Ankit salary 60
age = 40  name= Vaibhav salary 80

Sorted by score
age = 20  name= Prashant salary 100
age = 40  name= Vaibhav salary 80
age = 30  name= Ankit salary 60
age = 30  name= Shubham salary 60
prashant@prashant:Bootcamp_TTN_2020 (Collections_In_Java)$
```

7. Print the elements of an array in the decreasing frequency if 2 numbers have same frequency then print the one which came first.

   ANS: Filename- Frequency.java



8. Design a Data Structure SpecialStack that supports all the stack operations like push(), pop(), isEmpty(), isFull() and an additional operation getMin() which should return minimum element from the SpecialStack. (Expected complexity O(1)).

   ANS: Filename- StackNew.java