

# Exercise

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.

```
Enter 5 numbers.  
5  
2  
6  
.4  
6  
Sum of the no.s is : 19.4
```

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

```
/home/ctn/.sukman/candidates/java/8.0.202-amzn/bin/  
Enter a string :  
something typer  
No. of unique characters in something typer : 13
```

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

```
Enter a string :  
something typed  
No. of : 1  
No. of d : 1  
No. of e : 2  
No. of g : 1  
No. of h : 1  
No. of i : 1  
No. of m : 1  
No. of n : 1  
No. of o : 1
```

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

```
ternal Libraries      Employ
Exercise7 x Exercise4 x
/home/ttn/.sdkman/candidates/java/8.0.202-amzn/bin/java ...
Employee{name='Yatika', age=24, salary=64491.56}
Employee{name='Manish', age=26, salary=65291.56}
Employee{name='Harsh', age=22, salary=65391.56}
Employee{name='Manik', age=29, salary=65411.56}
Employee{name='Yatin', age=24, salary=65491.56}
```

5. 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

```
Exercise7 x Exercise5 x
/home/ttn/.sdkman/candidates/java/8.0.202-amzn/bin/java
Student{firstName='Anjali', age=25, score=71.56}
Student{firstName='Harsh', age=22, score=71.56}
Student{firstName='Yatika', age=24, score=81.56}
Student{firstName='Yatin', age=24, score=91.56}
Student{firstName='Manish', age=26, score=92.56}
Student{firstName='Manik', age=29, score=98.56}
```

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

```
Exercise7 x Exercise6 x
6,565,6,8,12,6,23,12,4,99,8,
Sorted Array :
key = 6, Frequency = 3
key = 8, Frequency = 2
key = 12, Frequency = 2
key = 565, Frequency = 1
key = 23, Frequency = 1
key = 4, Frequency = 1
key = 99, Frequency = 1
Process finished with exit code 0
```

7.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  $O(1)$ )

```
Exercise7 x
6. Exit
3
Peek Element = 12
Stack Operations
1. Push
2. Pop
3. Peek
4. Check Empty
5. Get Minimum
6. Exit
7
Enter integer element to push
51
Stack Operations
1. Push
2. Pop
3. Peek
4. Check Empty
5. Get Minimum
6. Exit
3
Peek Element = 51
Stack Operations
1. Push
2. Pop
3. Peek
4. Check Empty
5. Get Minimum
6. Exit
5
Minimum Element = 12
Stack Operations
```

8.Write a program to format date as example "21-March-2016"

```
Exercise8 x
/home/ttn/.sdkman/candidates/
24-February-2019
```

9.Write a program to display times in different country format.

```
Exercise9 x
/home/ttn/.sdkman/candidates/java/8.0.202-amzn/bin/java .
Sunday, February 24, 2019
2019 فبراير 24
2019 شباط 24
2019 شباط 24
2019. veljače 24
dimanche 24 février 2019
domingo 24 de febrero de 2019
Il-Hadd, 24 ta' Frar 2019
domingo 24 de febrero de 2019
24 Февруари 2019, Неделя
2019年2月24日 星期日
domenica 24 febbraio 2019
2019년 2월 24일 일요일
неділя, 24 лютого 2019 р.
svētdiena, 2019, 24 februāris
24. februar 2019
domingo 24 de febrero de 2019
```