Assignment-1

1. Given a list of integers, separate odd and even numbers.

Input: {71, 18, 42, 21, 67, 32, 95, 14, 56, 87}

1. Remove duplicate elements from a list using Java 8 streams.

Input: {"Java", "Python", "C#", "Java", "Kotlin", "Python"}

1. Find frequency of each element in an array or a list.

Input: {"Pen", "Eraser", "Notebook", "Pen", "Pencil", "Stapler", "Notebook", "Pencil", "Pen"}

1. Sort the given list of decimals in reverse order (higher to lower).

Input: {12.45, 23.58, 17.13, 42.89, 33.78, 71.85, 56.98, 21.12}

1. Find second largest number in an integer array.

Input: {45, 12, 56, 15, 24, 75, 31, 89}

1. Given a list of strings, sort them according to increasing order of their length.

Input: {"Java", "Python", "C#", "HTML", "Kotlin", "C++", "COBOL", "C"}

1. Take two strings from the user and check if two strings are anagrams or not.

(Any word or phrase that exactly reproduces the letters in another order is an anagram.)

1. Take an integer from the user and find sum of all digits of that number.
2. Given a list of strings, find out those strings which start with a number.

Input: {"One", "2wo", "3hree", "Four", "5ive", "Six"}

1. Find first non-repeated character in a string.

Input: This is a java assignment.

Assignment-2

* Create an Employee class with the following attributes, i.e.
  + - id, type-Integer.
    - name, type-String.
    - age, type-Integer.
    - gender, type-String.
    - department, type-String.
    - yearOfJoining, type-Integer.
    - salary, type-Double.

Override toString () method to print employee’s full details and add parameterized constructor also.

* Create a class called EmployeeSolutionUsingJava8 with a main method.
* Create an array List of Employee object and assign following values in it.

[](../Users/XY50067/OneDrive%20-%20Old%20Mutual/JAVA%208%20Tutorial/Employee.xlsx)

* Solve the following problems using Java 8 lambdas.
* How many male and female employees are there in the organization?
* Print the name of all departments in the organization?
* What is the average age of male and female employees?
* Get the details of highest paid employee in the organization?
* Get the names of all employees who have joined after 2015?
* Count the number of employees in each department?
* What is the average salary of each department?
* Get the details of youngest male employee in the product development department?
* Who has the most working experience in the organization?
* How many male and female employees are there in the sales and marketing team?
* What is the average salary of male and female employees?
* List down the names of all employees in each department?
* What is the average salary and total salary of the whole organization?
* Separate the employees who are younger or equal to 25 years from those employees who are older than 25 years.
* Who is the oldest employee in the organization? What is his age and which department he belongs to?