#### **Antwalk Software Engineering Foundations**

# **Java 8 Functionality**

#### Assignment 1

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#### Q1.

collection of strings filter - > print strings whose length is >5 and <8 using stream API

### StreamAPIDemo.java

```
| File | Edit | Selection | View | Go | Run | Terminal | Help | Edit | Passignment | Run | Demo, and | StreamAPIDemo, and | StreamAPIDemo, and | StreamAPIDemo, and | StreamAPIDemo | Passignment | Pa
```

## Output:

 $Q2.\ employee\ -\ >\ id\ ,\ name,\ salary$  collection of emp objects-> mapper -> salary incremented by 10%

### Employee.java

```
| File | Edit | Selection | View | Go | Run | Terminal | Help | Co | Proposed | Proposed
```

## EmployeeTester.java

```
··· 🔀 Get Started
                                                                                                                                                                   D ∨ th □ ···
                                        import java.util.Arrays;
import java.util.List;
        J StreamAPIDemo.... U
                                              public class EmployeeTester {
                                               Run|Debug
public static void main(String[] args) {
                                                         List<Employee> employees = Arrays.asList(
                                                              new Employee(id: 1, name: "John", salary: 5000),
new Employee(id: 2, name: "Jane", salary: 6000),
new Employee(id: 3, name: "Jim", salary: 7000)
employees.stream()
                                                               .map(emp -> new Employee(emp.getId(), emp.getName(), Math.round(emp.getSalary()
.forEach(emp -> System.out.println(emp.getName() + ": " + emp.getSalary()));
       > OUTLINE
                                       PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
      > TIMELINE
                                                                                                                                                                    ∑ Code
                                       PS C:\Users\ARIJIT\Desktop\NRI\Assignments\WEEK 3\Java 8 Functionality\Assignment 1> []
                                                                                                                                                                     Run: Employ
```

#### Output:

```
ASSIGNMENT 1

D EmployeeJava U J EmployeeJava U J EmployeeTesterjava > % EmployeeTester > ⊕ main(String[])

1 import java.util.Arrays;
2 import java.util.List;

4 public class EmployeeTester {
Run|Debug
5 public static void main(String[] args) {
6 ListEmployee> employees = Arrays.asList(
7 new Employee(id: 1, name: "John", salary: 5000),
8 new Employee(id: 2, name: "Jane", salary: 6000),
10 };

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

PS C:\Users\ARIJIT\Desktop\NRI\Assignments\WEEK 3\Java 8 Functionality\Assignment 1> c:; cd '
C:\Users\ARIJIT\Desktop\NRI\Assignments\WEEK 3\Java 8 Functionality\Assignment 1'; & 'C:\Program Files\Java\jd\Lassignment 1', can be consoled availating to consoled availating to
```

Q3. collection -> productlist1-> hp laptop, acer laptop, samsung productlist2-> hp phone, acer, samsung productlist3-> camera, acer, samsung final collection productsList -> productlist1, productlist2, productlist2 flatmap -> list collection products -> print names of all products

### FlatMap.java

## Output:

