

1. Write a method that returns the average of a list of integers.

```
public class AverageLambdaStreamDemo{  
    public Double average(List<Integer> list) {  
        // Your code goes here  
    }  
}
```

2. Write a method that converts all strings in a list to their upper case.

```
public class UpperCaseLambdaStreamDemo{  
    public List<String> toUpperCase(List<String> list) {  
        // Your code goes here  
    }  
}
```

3. Given a list of Strings, write a method that returns a list of all strings that start with the letter 'a' (lower case) and have exactly 3 letters. Use Java 8 Lambdas and Streams API's.

```
public class FilterStringLambdaStreamDemo{  
    public List<String> search(List<String> list) {  
        // Your code goes here  
    }  
}
```

4. Write a method that returns a comma separated string based on a given list of integers. Each element should be preceded by the letter 'e' if the number is even, and preceded by the letter 'o' if the number is odd. For example, if the input list is (3,44), the output should be 'o3,e44'.

```
public class TransformStringLambdaStreamDemo{  
    public String getString(List<Integer> list) {  
        // Your code goes here  
    }  
}
```

5. Clone this boilerplate and provide proper solution.

<https://gitlab-cgi.stackroute.in/rutuja.bacchuwar/streams-boilerplate>