

## Programming Assignment 8-4

In the sample code in the supplementary code folder, there are classes `Address` and `Main`. The main method of `Main` creates a list of addresses. It then calls the method `printAsUpperCase()`, which has not been implemented yet. Implement this method so that the output looks like this:

```
JIM  
101 ADAMS  
FAIRFIELD, IA 52556
```

```
TOM  
30 W. BURLINGTON  
FAIRFIELD, IA 52556
```

```
HAL  
14 E. COURT  
FAIRFIELD, IA 52556
```

```
SALLY  
410 W. JEFFERSON  
FAIRFIELD, IA 52556
```

```
MUM  
1000 N. 4TH ST  
FAIRFIELD, IA 52556
```

Accomplish this by doing the following:

1. In the `Address` class implement the method `List<String> toUpper()`, which returns name, street, city, state, zip fields of the `Address` object as a `List of Strings`, all converted to upper case. You must accomplish this *without the use of a loop*. Hint: Use the new jdk1.8 default `forEach` method (in the `Iterable` interface).
2. In the `Main` class, implement the `formatFields(List<String>)` method which transforms a list of address fields (each list contains name, street, city, state, zip) into a formatted `String` that looks like this:  
    name  
    street  
    city, state, zip  
Hint: Use `String.format`.
3. In the `Main` class, implement the `printAsUpperCase` method which transforms the `listOfAddresses` that was populated in the main method to upper case strings (should call the `formatFields` method that you implement) and prints to the console. This must be done *without a loop*. Hint: Use `forEach` again.