Homework Assignment

Overview:

You are asked to create a program in Scala that will consume REST endpoints, munge JSON data and output results. The API you will be working with is a publicly available REST API from the U.S. Food and Drug Administration related to Recall Enforcement Report data

Endpoint Documentation:

https://open.fda.gov/apis/food/enforcement/

Criteria

Your program should output to the terminal the following:

- 1. A list of top 10 "Class III" health hazard classification alerts, grouped by state and further by status
- 2. A line stating the average number of reports per month in 2016
- 3. A list of the top 10 states and the number of reports each had in 2017
- 4. The year with the most and fewest reports across all states

Example of Output

```
1. Top States with Class III Hazard State CA/Status Terminated: 164
State TX/Status Terminated: 130
State IA/Status Terminated: 115
State WA/Status Terminated: 100
State MA/Status Terminated: 86
State NY/Status Terminated: 71
State NJ/Status Terminated: 50
State OR/Status Terminated: 32
State UT/Status Terminated: 28
State FL/Status Terminated: 27
```

```
2. Average reports per month in 2016
251 reports
3. Top States for 2017
IL: 468
CA: 293
FL: 245
NY: 227
NH: 210
PA: 188
WA: 156
TX: 143
MA: 134
OH: 123
4. Top Years
Highest year is 2017 with 3206 reports
Lowest year is 2004 with 0 reports
```

How to Submit Your Code

When you are done with the program, either

- Share a private github repo that has the code with sasha-fedtsov and linciitizen (give admin privileges so we can share it with other team members in Invitae)
- 2. OR send a zip file with the whole project to alexandre.fedtsov@invitae.com
 and lin.wan@invitae.com