Lab	Lab 7
Student	Vinh Phuc Hua - 612392
Professor	Rene de Jong

Part 3. **A problem with a registry is that it is a single point of failure. Describe how you would solve this single point of failure problem?**

To solve this single point of failure problem, I can choose with some solutions as below.

- Solution 1: Cluster setup

  Deploy it in a cluster to avoid a single point of failure as a set of replica peers.

- Solution 2: Multiple Servers on a single machine

  I will configure it to run in different servers with different hostnames

- Solution 3: Ribbon Load Balancer
  This load balancer is from Netflix that integrates with Eureka

Part 4. **A problem with services is that a service can be down. If the StockService is down, the ProductService cannot work properly. Describe how you would solve this problem?**

To solve this problem, I will configure to scale up service instances of StockService. This solution is Peer Awareness configuration.

Below is an example for configuring two instances of StockService.

- First instance

```
server:
  port: 8900

eureka:
  instance:
    hostname: peer1
  client:
    serviceUrl:
      defaultZone: http://peer1:8901/eureka/

spring:
  application:
    name: StockService
```

- Second instance

```yaml
server:
  port: 8901

eureka:
  instance:
    hostname: peer2
  client:
    serviceUrl:
      defaultZone: http://peer2:8900/eureka/

spring:
  application:
    name: StockService
```