**Hands-On Project**

**Assignment Time to complete this project: 90 minutes**

**Objective:**

Develop simple services (Client service invoking Banking service) to credit a bank account with funds, and then to query the bank account. This assumes that the bank account ‘100’ is already created

You are required to follow TDD practices,

1. Download and run the Eureka Server from git repo
   1. <https://github.com/cog2019/eureka_server>
2. Create Banking Service using Spring Boot and run on Port 9001 using
   1. <https://start.spring.io/>
3. In the Banking Service implement the end points
   1. http://localhost:9001/account/addfunds – POST request to add funds to account number 100. Obtain the current account balance to add to it.
   2. http://localhost:9001/account/100/{balance} – Find the current balance of account 100
   3. Register the Banking Service with Eureka Server <http://localhost:8761/>
   4. Save Account in My SQL DB
   5. Get Account from in My SQL DB
4. Create Client Service using Spring Boot Run on Port 9002
5. Consume Banking Service from Client Service
   1. Using Eureka as the discovery server
   2. Use feign client or rest template
   3. [http://localhost:9002/account/100/{balance}](http://localhost:9002/account/100/%7bbalance%7d)
   4. http://localhost:9001/account/addfunds
6. Using Postman
   1. Add funds with Following Values (Number="100” , Credit = 1000) consuming Client Service
   2. Search account by name using Client Service
7. TTD (Unit Test) for both methods in Banking Service

**Note:**

1. Account object will just have a account number and credit
2. Must upload the two projects in whatever state on GitHub when the exam finishes and add Cog2019 as the collaborator