1. Use the spring boot applications created for the Eureka Service Discovery labs like EurekServer, EurekaClientA and EurekaClientB

2. Create an spring boot application as APIGateway and add the dependencies in pom.xml file

```xml
<dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-gateway</artifactId>
</dependency>
<dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
</dependency>
```

3. Add @EnableDiscoveryClient annotation in the main spring boot application file as below:

```java
package com.learning.apigateway;

import ...

@SpringBootApplication
@EnableDiscoveryClient
public class ApiGatewayApplication {

    public static void main(String[] args) { SpringApplication.run(ApiGatewayApplication.class, args); }

}
```
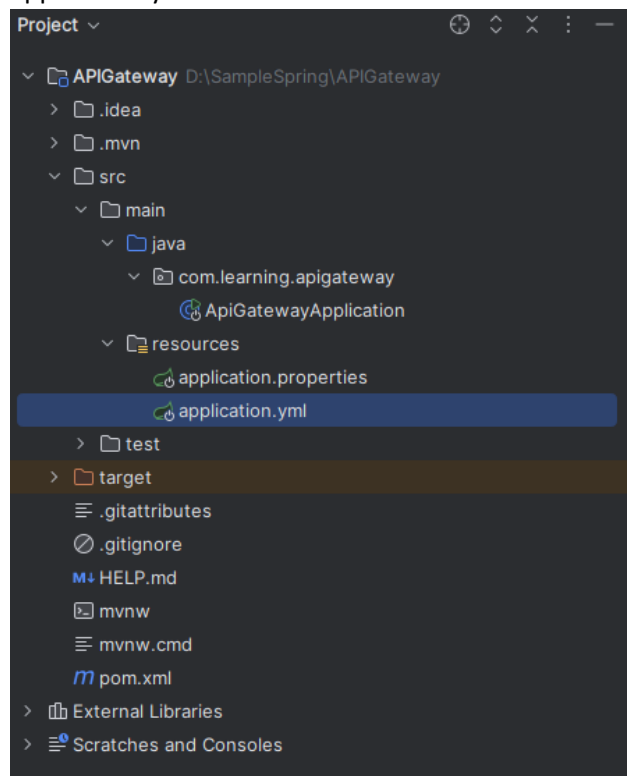
4. In File Explorer, go to Resources folder, right-click and create new file in the name of application.yml as below

5. Add these below properties to define route for the eurekaclientA and eurekaclientB in application.yml file in APIGateway

```yaml
#Properties for API Gwateway Routing


spring:
  cloud:
    gateway:
      routes:
        - id : eurekaclientA
          uri: http://localhost:8091
          predicates:
            - Path=/servicea/**
        - id : eurekaclientB
          uri: http://localhost:8092
          predicates:
            - Path=/serviceb/**


#Properties for API Load Balancer
```

6. Now run all the applications like EurekaServer, EurekaClientA, EurekaClientB and APIGateway. Verify the gateway by using below links:

http://localhost:8080/servicea/

http://localhost:8080/serviceb/