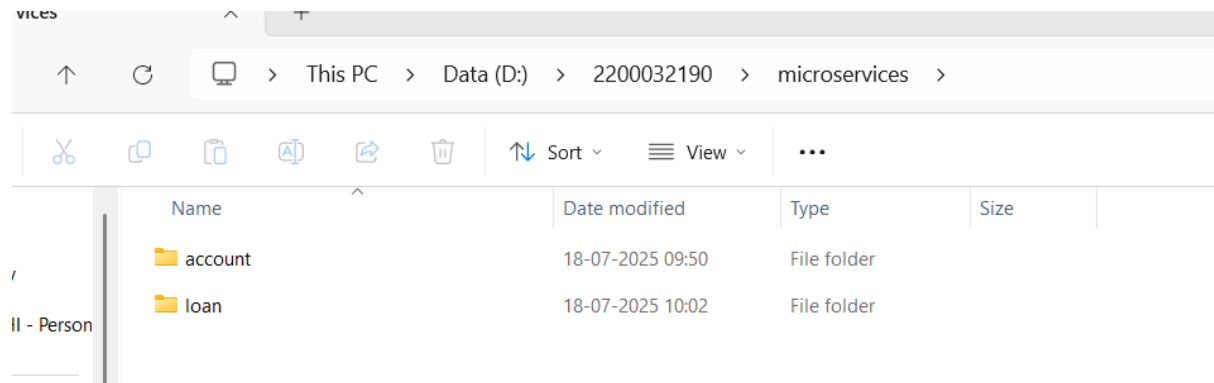


Creating Microservices for account and loan From File

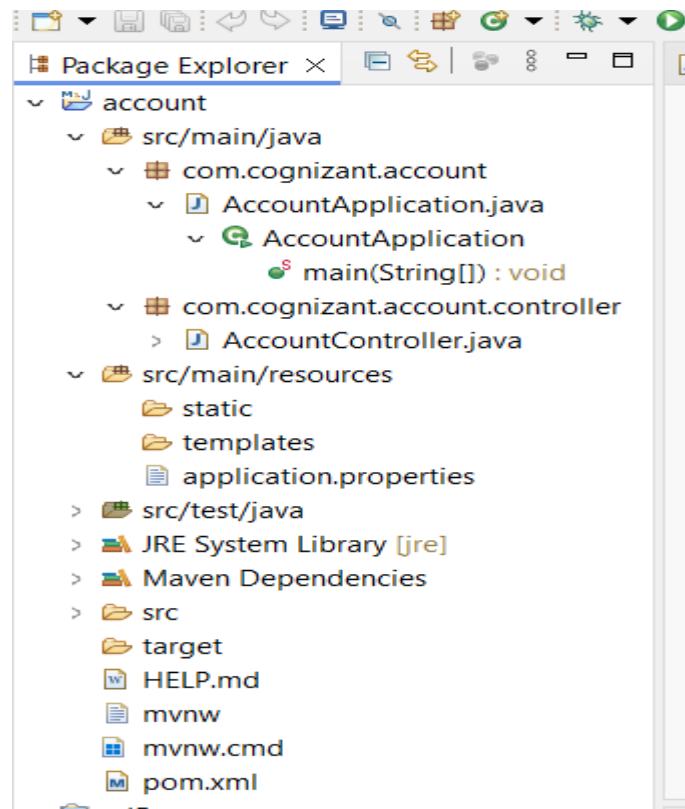
2. Microservices with API gateway

Create and extract account,loan project from spring-initializr as zip file



After importing account file into Eclipse

Create a Package com.cognizant.account.controller :



In this AccountController.java:

```
package com.cognizant.account.controller;
```

```

import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RestController;
import java.util.Map;

@RestController

public class AccountController {

    @GetMapping("/accounts/{number}")

    public Map<String, Object> getAccount(@PathVariable String
number) {

        return Map.of(

            "number", number,

            "type", "savings",

            "balance", 234343

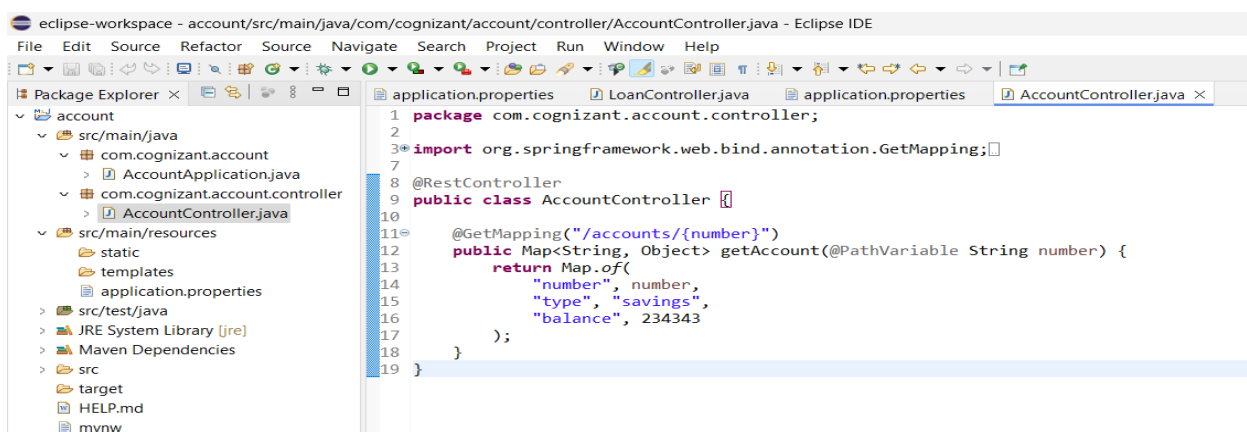
        );

    }

}

```

Pic From Eclipse IDE:

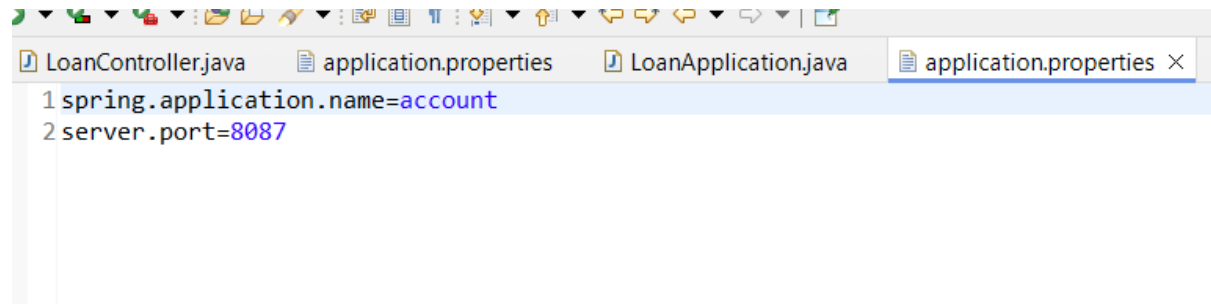


Now change the serverport :

Application.properties

spring.application.name=account

server.port=8087



Now run the AccountApplication.java :

```
package com.cognizant.account;
```

```
import org.springframework.boot.SpringApplication;
```

```
import
```

```
org.springframework.boot.autoconfigure.SpringBootApplication;
```

```
@SpringBootApplication
```

```
public class AccountApplication {
```

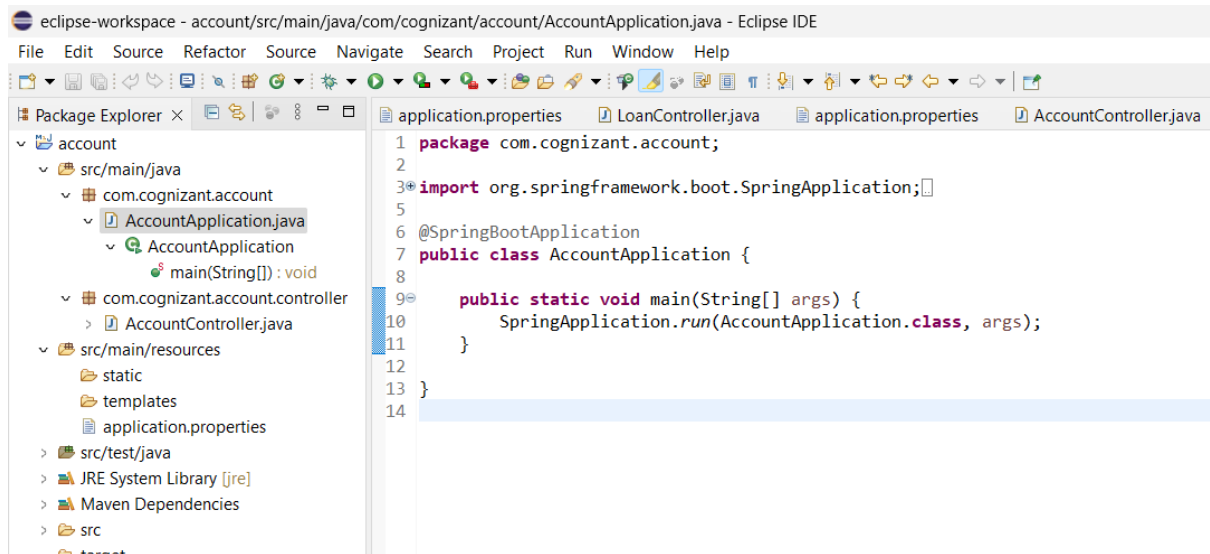
```
    public static void main(String[] args) {
```

```
        SpringApplication.run(AccountApplication.class, args);
```

```
    }
```

```
}
```

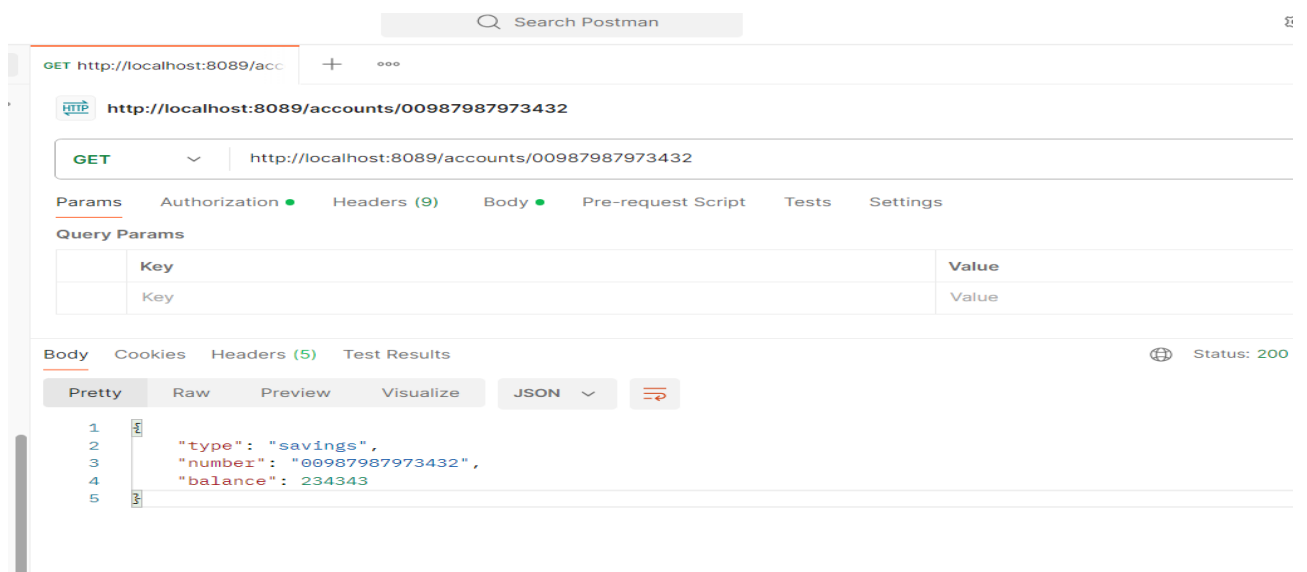
Pic From Eclipse IDE:



Output From Postman:

```
{
  "type": "savings",
  "number": "00987987973432",
  "balance": 234343
}
```

Pic from postman:

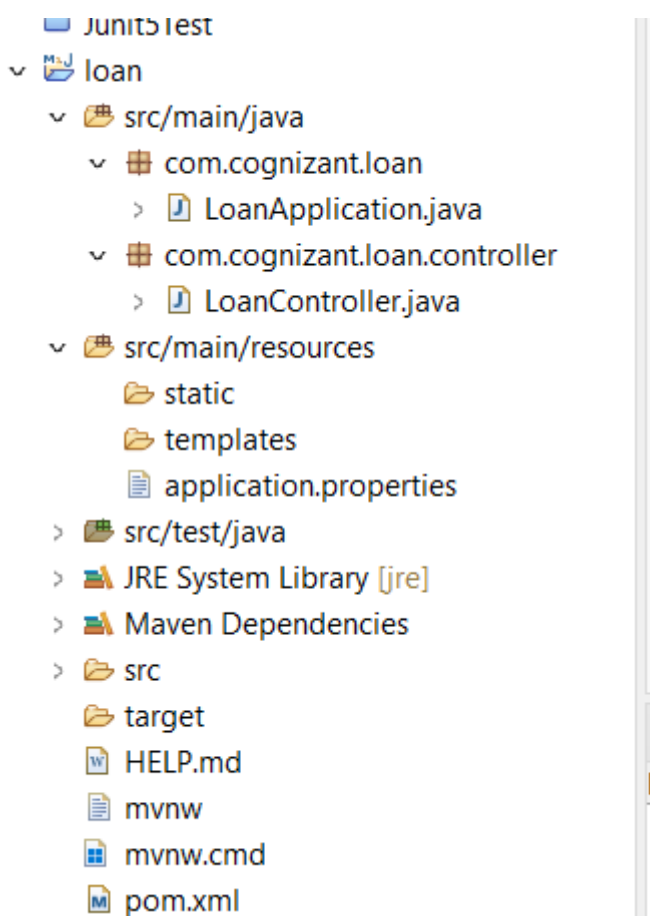


From Eclipse ide:

```
- [account] [ restartedMain] c.cognizant.account.AccountApplication : Starting AccountApplication using Java 22.0.1 with PID 20872 (D:\2200032190\microservices\account\t
- [account] [ restartedMain] c.cognizant.account.AccountApplication : No active profile set, falling back to 1 default profile: "default"
- [account] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8087 (http)
- [account] [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
- [account] [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.42]
- [account] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
- [account] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 177 ms
- [account] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
- [account] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8087 (http) with context path '/'
- [account] [ restartedMain] c.cognizant.account.AccountApplication : Started AccountApplication in 0.287 seconds (process running for 1434.254)
- [account] [ restartedMain] .ConditionEvaluationDeltaLoggingListener : Condition evaluation unchanged
```

2.

Import file Loan into Eclipse:



Create Controller package in that Create LoanController.java

Class:

Code:

```
package com.cognizant.loan.controller;
```

```
import org.springframework.web.bind.annotation.GetMapping;
```

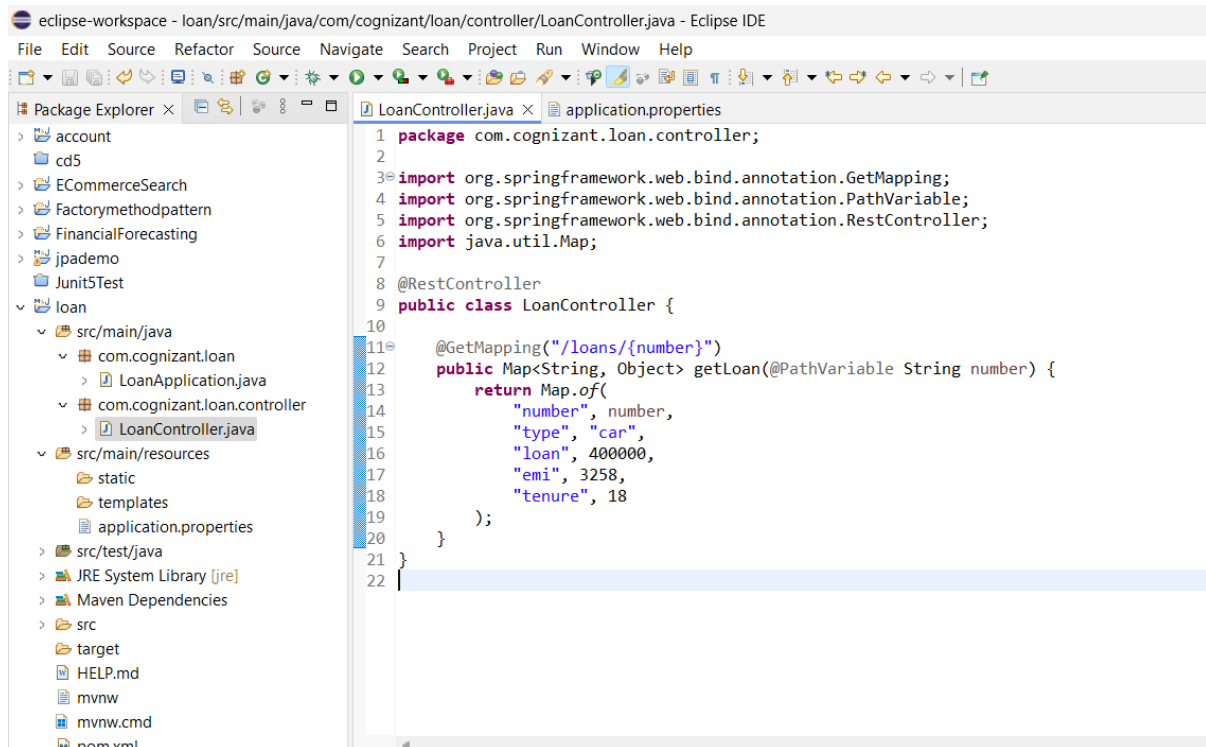
```
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RestController;
import java.util.Map;

@RestController

public class LoanController {

    @GetMapping("/loans/{number}")
    public Map<String, Object> getLoan(@PathVariable String number)
    {
        return Map.of(
            "number", number,
            "type", "car",
            "loan", 400000,
            "emi", 3258,
            "tenure", 18
        );
    }
}
```

Pic From Eclipse IDE:



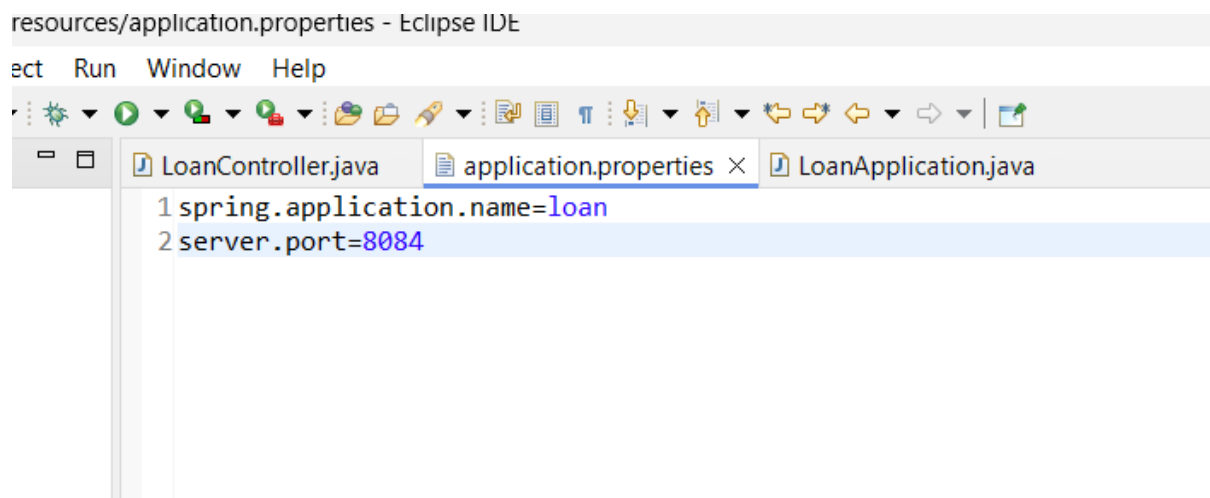
Now Change the port if needed:

Application.properties

spring.application.name=loan

server.port=8083

Pic From Eclipse IDE:



LoanApplication.java:

Code:

```
package com.cognizant.loan;

import org.springframework.boot.SpringApplication;

import
org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class LoanApplication {

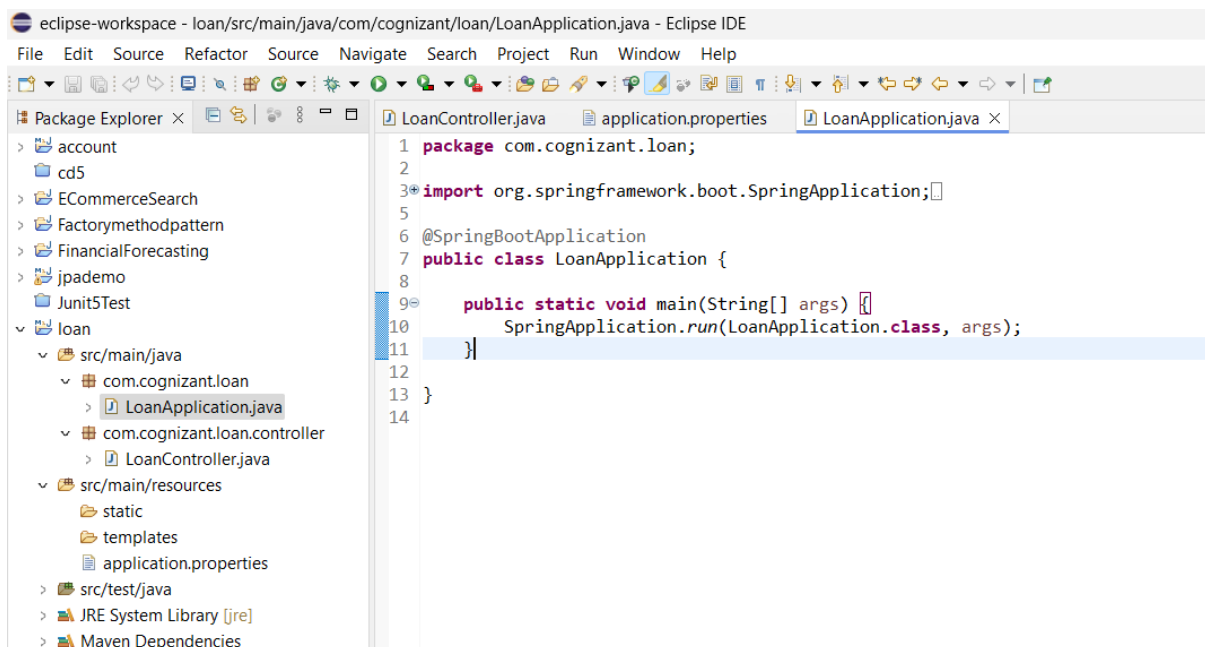
    public static void main(String[] args) {

        SpringApplication.run(LoanApplication.class, args);

    }

}
```

Pic From Eclipse IDE:

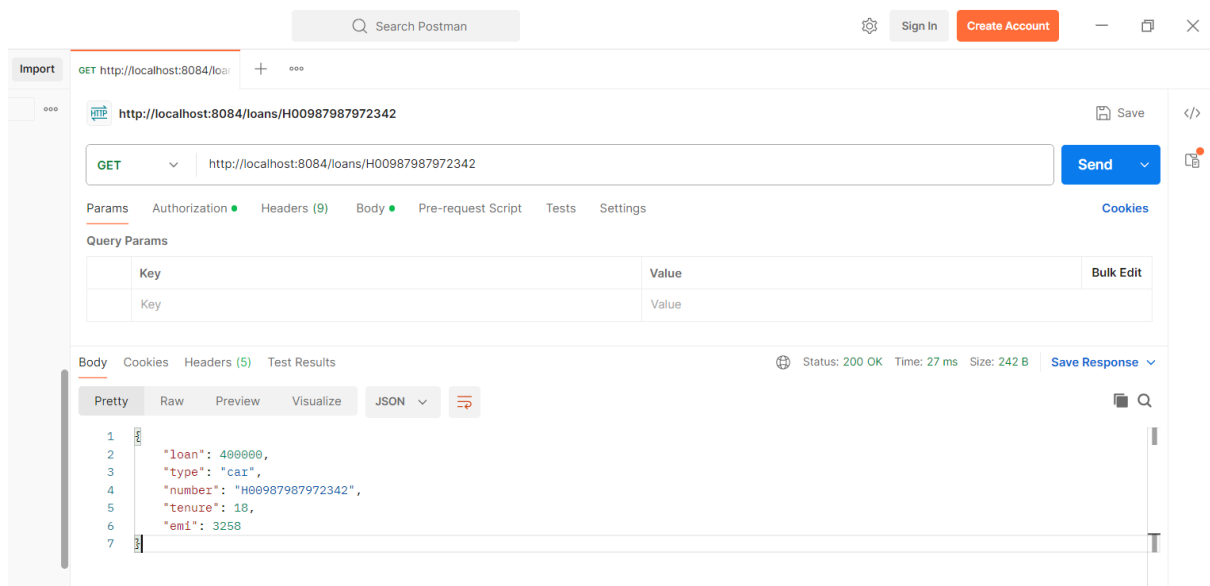


After Running This Class:

Output From Postman:

```
{  
  
  "loan": 400000,  
  
  "type": "car",  
  
  "number": "H00987987972342",  
  
  "tenure": 18,  
  
  "emi": 3258  
  
}
```

Pic From Postman:



Output from Eclipse:

