

Digital Nuture 4.0

Week - 5

Question 1:

Accounts

AccountController.java

```
package com.cognizant.account.Controller; // Changed

import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RestController;
import com.cognizant.account.Model.Account; // Added import

@RestController
public class AccountController {

    @GetMapping("/accounts/{number}")
    public Account getAccountDetails(@PathVariable String number)
    {
        return new Account("00987987973432", "savings", 234343);
    }
}
```

Account.java

```
public class Account {
    private String number;
    private String type;
    private double balance;

    public Account(String number, String type, double balance) {
        this.number = number;
        this.type = type;
        this.balance = balance;
    }

    // Getters and Setters remain the same...
    public String getNumber() { return number; }
```

```

    public void setNumber(String number) { this.number = number; }
    public String getType() { return type; }
    public void setType(String type) { this.type = type; }
    public double getBalance() { return balance; }
    public void setBalance(double balance) { this.balance =
balance; }
}

```

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);
    }

}

```

AccountApplicationTest.java

```

package com.cognizant.account;

import org.junit.jupiter.api.Test;
import org.springframework.boot.test.context.SpringBootTest;

@SpringBootTest
class AccountApplicationTests {

    @Test
    void contextLoads() {
    }

}

```

Pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>3.5.3</version>
    <relativePath/> <!-- lookup parent from repository -->
  </parent>
  <groupId>com.cognizant</groupId>
  <artifactId>account</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>account</name>
  <description>Demo project for Spring Boot</description>
  <url/>
  <licenses>
    <license/>
  </licenses>
  <developers>
    <developer/>
  </developers>
  <scm>
    <connection/>
    <developerConnection/>
    <tag/>
    <url/>
  </scm>
  <properties>
    <java.version>17</java.version>
  </properties>
  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

    <dependency>
```

```

        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-devtools</artifactId>
        <scope>runtime</scope>
        <optional>true</optional>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
    </dependency>
</dependencies>

<build>
    <plugins>
        <plugin>

        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-maven-
plugin</artifactId>
        </plugin>
    </plugins>
</build>

</project>

```

Loan

LoanController.java

```

package com.cognizant.loan.Controller; // Add this package

import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RestController;
import com.cognizant.loan.Model.Loan; // Add this import

@RestController
public class LoanController {

    @GetMapping("/loans/{number}")
    public Loan getLoanDetails(@PathVariable String number) {
        return new Loan("H00987987972342", "car", 400000, 3258,
18);
    }
}

```

```
}  
}
```

LoanApplication.java

```
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);  
    }  
  
}
```

LoanApplication.java

```
package com.cognizant.loan;  
  
import org.junit.jupiter.api.Test;  
import org.springframework.boot.test.context.SpringBootTest;  
  
@SpringBootTest  
class LoanApplicationTests {  
  
    @Test  
    void contextLoads() {  
    }  
  
}
```

Pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>  
<project xmlns="http://maven.apache.org/POM/4.0.0"  
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
        xsi:schemaLocation="http://maven.apache.org/POM/4.0.0  
            https://maven.apache.org/xsd/maven-4.0.0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
<parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>3.5.3</version>
    <relativePath/> <!-- lookup parent from repository -->
</parent>
<groupId>com.cognizant</groupId>
<artifactId>loan</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>loan</name>
<description>Demo project for Spring Boot</description>
<url/>
<licenses>
    <license/>
</licenses>
<developers>
    <developer/>
</developers>
<scm>
    <connection/>
    <developerConnection/>
    <tag/>
    <url/>
</scm>
<properties>
    <java.version>17</java.version>
</properties>
<dependencies>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-devtools</artifactId>
        <scope>runtime</scope>
        <optional>true</optional>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
```

```

        <scope>test</scope>
    </dependency>
</dependencies>

<build>
    <plugins>
        <plugin>

            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-maven-
plugin</artifactId>
            </plugin>
        </plugins>
    </build>

</project>

```

Output

