

The code demonstrates the usage of the Spring Framework's lifecycle callbacks in a Java application. It consists of three files: `Test.java`, `Vehicle.java`, and `lifecycleconfig.xml`.

The `Test.java` file contains the main method, where the Spring application context is initialized and used. It creates an instance of `ClassPathXmlApplicationContext` with the configuration file `lifecycleconfig.xml`.

The `Vehicle` class represents a vehicle model and has two properties: `vehicleName` and `vehicleCC`. It overrides the `toString` method for better string representation. Additionally, it defines two additional methods: `init` and `destroy`, which are annotated as lifecycle callbacks.

The `lifecycleconfig.xml` file is an XML configuration file that defines the Spring beans and their properties. It defines a bean of type `Vehicle` with the name "bike" and sets the values of its `vehicleName` and `vehicleCC` properties. It also specifies the names of the `init` and `destroy` methods as the lifecycle callback methods.

In the `main` method, the application context is created, and the "bike" bean is retrieved. The `toString` representation of the `Vehicle` object is printed.

Finally, the `registerShutdownHook` method is called on the application context to ensure that the appropriate destroy methods are invoked when the JVM shuts down.

Overall, the code demonstrates how to use Spring's lifecycle callbacks to perform initialization and cleanup tasks on beans within the Spring container.

Main class:

```
package com.springcore.lifecycle;
import org.springframework.context.support.AbstractApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
public class Test {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        AbstractApplicationContext context = new ClassPathXmlApplicationContext("com/springcore/lifecycle/lifecycleconfig.xml");
        Vehicle vehicle = (Vehicle) context.getBean("bike");
        System.out.println(vehicle);
        context.registerShutdownHook();
    }
}
```

Config.XML

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:context="http://www.springframework.org/schema/context"
       xmlns:p="http://www.springframework.org/schema/p"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://www.springframework.org/schema/beans
                           http://www.springframework.org/schema/beans/spring-beans.xsd">

    <bean class="com.springcore.lifecycle.Vehicle" name="bike" p:vehicleName="Pulsar 220" p:vehicleCC="219cc" init-method="init" destroy-method="destroy"/>
</beans>
```

Vehicle class:

```
package com.springcore.lifecycle;
public class Vehicle {
    private String vehicleName;
    private String vehicleCC;
    public String getVehicleName() {
        return vehicleName;
    }
    public void setVehicleName(String vehicleName) {
        this.vehicleName = vehicleName;
    }
    public String getVehicleCC() {
        return vehicleCC;
    }
    public void setVehicleCC(String vehicleCC) {
        this.vehicleCC = vehicleCC;
    }
    public Vehicle() {
        super();
        // TODO Auto-generated constructor stub
    }
    @Override
    public String toString() {
        return "Vehicle [vehicleName=" + vehicleName + ", vehicleCC=" + vehicleCC + "]";
    }
    public void init()
    {
        System.out.println("Inside init...");
    }
    public void destroy()
    {
        System.out.println("Inside destroy...");
    }
}
```