

Assignment No	5
Title	Spring Basics
Objective	Develop a Spring application to implement AccountHolder & MobileImpl class
Roll No	MCA2511

**1. Design AccountHolder class with Attributes fname & lname. Develop a Spring application to implement AccountHolder class**

**Source Code:**

**AccountHolder.java**

```
package edu.met.p1;

public class AccountHolder {

    private String fname;
    private String lname;

    public String getFname() {
        return fname;
    }
    public void setFname(String fname) {
        this.fname = fname;
    }
    public String getLname() {
        return lname;
    }
    public void setLname(String lname) {
        this.lname = lname;
    }
    @Override
    public String toString() {
```

```
        return "AccountHolder [fname=" + fname + ", lname=" + lname + "]";  
    }  
  
}
```

### **AccountImpl.java**

```
package edu.met.p1;  
import org.springframework.context.*;  
import org.springframework.context.support.*;  
  
public class AccountImpl {  
    private static ApplicationContext ctx;  
    public static void main(String[] args) {  
        ctx = new ClassPathXmlApplicationContext("AppCtx.xml");  
        AccountHolder a1 = (AccountHolder)ctx.getBean("AccountHolder");  
        System.out.println(a1);  
    }  
}
```

### **AppCtx.xml**

```
<?xml version="1.0" encoding="UTF-8"?>  
<beans  
    xmlns="http://www.springframework.org/schema/beans"  
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
    xmlns:p="http://www.springframework.org/schema/p"  
    xsi:schemaLocation="http://www.springframework.org/schema/beans  
        http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">  
  
    <bean id="AccountHolder" class="edu.met.p1.AccountHolder">  
        <property name="fname" value="Mukund"></property>  
        <property name="lname" value="Gangurde"></property>  
    </bean>  
</beans>
```

### **Output:**

AccountHolder [fname=Mukund, lname=Gangurde]

**2. Design mobile class with 3 Attributes mobileId, brand & model. Develop a Spring application to implement mobile class.**

**Source Code:**

**Mobile.java**

```
package edu.met.p1;

public class Mobile {
    private int mobileId;
    private String brand;
    private String model;

    public int getMobileId() {
        return mobileId;
    }
    public void setMobileId(int mobileId) {
        this.mobileId = mobileId;
    }
    public String getBrand() {
        return brand;
    }
    public void setBrand(String brand) {
        this.brand = brand;
    }
    public String getModel() {
        return model;
    }
    public void setModel(String model) {
        this.model = model;
    }

    @Override
    public String toString() {
        return "Mobile [mobileId=" + mobileId + ", brand=" + brand + ", model=" +
model + "]";
    }
}
```

**MobileImpl.java**

```
package edu.met.p1;
import org.springframework.context.*;
```

```
import org.springframework.context.support.*;  
  
public class MobileImpl {  
    public static ApplicationContext ctx;  
  
    public static void main(String[] args) {  
        ctx = new ClassPathXmlApplicationContext("MobCtx.xml");  
  
        Mobile m1 = (Mobile)ctx.getBean("Mobile");  
        System.out.println(m1);  
        Mobile m2 = (Mobile)ctx.getBean("Mobile");  
        m2.setMobileId(2);  
        m2.setBrand("Apple");  
        m2.setModel("20 Pro");  
        System.out.println(m2);  
        System.out.println("After m2");  
        System.out.println(m1);  
    }  
}
```

#### **MobCtx.xml**

```
<?xml version="1.0" encoding="UTF-8"?>  
<beans  
    xmlns="http://www.springframework.org/schema/beans"  
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
    xmlns:p="http://www.springframework.org/schema/p"  
    xsi:schemaLocation="http://www.springframework.org/schema/beans  
        http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">  
  
    <bean id="Mobile" class="edu.met.p1.Mobile" scope="prototype">  
        <property name="mobileId" value="01"/></property>  
        <property name="brand" value="Samsung"/></property>  
        <property name="model" value="M1"/></property>  
    </bean>  
</beans>
```

#### **Output:**

```
Mobile [mobileId=1, brand=Samsung, model=M1]  
Mobile [mobileId=2, brand=Apple, model=20 Pro]  
After m2  
Mobile [mobileId=1, brand=Samsung, model=M1]
```