

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]
```