**Spring Core Assignment :**

**1.**

**//Create an Address Class**

**package** com.CustomerDetails;

**public** **class** Address {

    String strret;

    String city;

    String state;

**int** zip;

    String country;

public Address(String strret, String city, String state, int zip, String country) {

super();

this.strret = strret;

this.city = city;

this.state = state;

this.zip = zip;

this.country = country;

}

**public** String getStrret() {

**return** strret;

    }

**public** **void** setStrret(String strret) {

**this**.strret = strret;

    }

**public** String getCity() {

**return** city;

    }

**public** **void** setCity(String city) {

**this**.city = city;

    }

**public** String getState() {

**return** state;

    }

**public** **void** setState(String state) {

**this**.state = state;

    }

**public** **int** getZip() {

**return** zip;

    }

**public** **void** setZip(**int** zip) {

**this**.zip = zip;

    }

**public** String getCountry() {

**return** country;

    }

**public** **void** setCountry(String country) {

**this**.country = country;

    }

**void** displayInfo() {

           System.***out***.println("Street: "+getStrret()+" "+"City: "+getCity());

           System.***out***.println("State: "+getState()+" "+"Zip: "+getZip()+" "+"Country: "+getCountry());

    }

}

**//create a Customer Class**

**package** com.CustomerDetails;

**public** **class** Customer {

**int** customerID;

    String customerName;

**long** customerContact;

    String customerAddress;

public Customer(int customerID, String customerName, long customerContact, String customerAddress) {

super();

this.customerID = customerID;

this.customerName = customerName;

this.customerContact = customerContact;

this.customerAddress = customerAddress;

}

**public** **int** getCustomerID() {

**return** customerID;

    }

**public** **void** setCustomerID(**int** customerID) {

**this**.customerID = customerID;

    }

**public** String getCustomerName() {

**return** customerName;

    }

**public** **void** setCustomerName(String customerName) {

**this**.customerName = customerName;

    }

**public** **long** getCustomerContact() {

**return** customerContact;

    }

**public** **void** setCustomerContact(**long** customerContact) {

**this**.customerContact = customerContact;

    }

**public** String getCustomerAddress() {

**return** customerAddress;

    }

**public** **void** setCustomerAddress(String customerAddress) {

**this**.customerAddress = customerAddress;

    }

**void** Display() {

           System.***out***.println("ID: "+getCustomerID()+" "+"Customer Name: "+getCustomerName());

           System.***out***.println("Contact: "+getCustomerContact()+" "+"Address: "+getCustomerAddress());

    }

}

**Pom.xml file using setter injection:**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<beans xmlns=*"http://www.springframework.org/schema/beans"*

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 id= *"address"* class= *"com.CustomerDetails.Address"*>

           <property name = *"strret"* value=*"Amarabati"* />

           <property name = *"city"* value=*"Sheoraphuli"* />

           <property name = *"state"* value=*"west Bengal"* />

           <property name = *"zip"* value=*"712223"* />

           <property name = *"country"* value=*"India"* />

    </bean>

  <bean id= *"customer"* class= *"com.CustomerDetails.Customer"*>

           <property name = *"customerID"* value=*"001"* />

           <property name = *"customerName"* value=*"Sawan Kundu"* />

           <property name = *"customerContact"* value=*"8013747773"* />

           <property name = *"customerAddress"* value=*"32/8 G.T. ROAD AMARABATI, SHEORAPHULI, HOOGHLY"* />

    </bean>

 </beans>

**Pom.xml file using Constructor:**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<beans xmlns=*"http://www.springframework.org/schema/beans"*

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 id= *"address"* class= *"com.CustomerDetails.Address"*>

           <constructor-arg index =*"0"* value=*"Amarabati"*></constructor-arg>

           <constructor-arg index =*"1"* value=*"Sheoraphuli"* ></constructor-arg>

           <constructor-arg index =*"2"* value=*"west Bengal"* ></constructor-arg>

           <constructor-arg index =*"3"* value=*"712223"* ></constructor-arg>

           <constructor-arg index =*"4"* value=*"India"* ></constructor-arg>

    </bean>

  <bean id= *"customer"* class= *"com.CustomerDetails.Customer"*>

           <constructor-arg index =*"0"* value=*"001"* ></constructor-arg>

           <constructor-arg index =*"1"* value=*"Sawan Kundu"*  ></constructor-arg>

           <constructor-arg index =*"2"* value=*"8013747773"* ></constructor-arg>

           <constructor-arg index =*"3"* value=*"32/8 G.T. ROAD AMARABATI, SHEORAPHULI, HOOGHLY"* />

    </bean>

 </beans>

//Main Class

**package** com.CustomerDetails;

**import** org.springframework.context.ApplicationContext;

**import** org.springframework.context.support.ClassPathXmlApplicationContext;

**public** **class** Main {

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

           ApplicationContext context = **new** ClassPathXmlApplicationContext("CustomerDetails.xml");

           Customer cus1=  (Customer) context.getBean("customer");

           //Address cus=  (Address) context.getBean("address");

           cus1.Display();

           //cus.displayInfo();

    }

}

**Output:**

