Name: Lutika Kolhe

Spring Core

1. Create a class address,customer and add the values.

Ans- Here I created 2 Class 1st is Address.java and 2nd is Customer.java

Class2: Address

**package** spring\_exp1;

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

**private** String street;

**private** String city;

**private** String state;

**private** **int** zip;

**private** String country;

**public** String getStreet() {

**return** street;

}

**public** **void** setStreet(String street) {

**this**.street = street;

}

**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;

}

}

Class2: Customer

**package** spring\_exp1;

**publicclass** Customer {

**private int** customer id;

**private** String Customer name;

**private int** customercontact;

**private** Address street;

**private** Address city;

**private** Address state;

**private** Address zip;

**private** Address country;

**publicint**getCustomerid() {

**return**customerid;

}

**publicvoid**setCustomerid(**int**customerid) {

**this**.customerid = customerid;

}

**public** String getCustomername() {

**return**Customername;

}

**publicvoid**setCustomername(String customername) {

Customername = customername;

}

**publicint**getCustomercontact() {

**return**customercontact;

}

**publicvoid**setCustomercontact(**int**customercontact) {

**this**.customercontact = customercontact;

}

**public** Address getStreet() {

**return**street;

}

**publicvoid**setStreet(Address street) {

**this**.street = street;

}

**public** Address getCity() {

**return**city;

}

**publicvoid**setCity(Address city) {

**this**.city = city;

}

**public** Address getState() {

**return**state;

}

**publicvoid**setState(Address state) {

**this**.state = state;

}

**public** Address getZip() {

**return**zip;

}

**publicvoid**setZip(Address zip) {

**this**.zip = zip;

}

**public** Address getCountry() {

**return**country;

}

**publicvoid**setCountry(Address country) {

**this**.country = country;

}

**publicvoid** display()

{

System.***out***.println("id:" +getCustomerid()+ " "+ "name:" +getCustomername()+" "+"Contact:"+getCustomercontact());

System.***out***.println("Customer address"+getStreet().getStreet());

System.***out***.println(getCity().getCity());

System.***out***.println(getState().getState());

System.***out***.println(getZip().getZip());

System.***out***.println(getCountry().getCountry());

}

}

Class3:Main

**package** spring\_exp1;

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

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

**import**springcore\_example.HelloBean;

**publicclass** Main {

**publicstaticvoid** main(String[] args) {

// **TODO** Auto-generated method stub

ApplicationContextcontext=**new**ClassPathXmlApplicationContext("spring1.xml");

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

customer.display();

}

}

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

<beansxmlns = "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-3.0.xsd">

<beanid = "Customer"class="spring\_exp1.Customer">

<propertyname="customerid"value="3"/>

<propertyname="Customername"value="Lutika"/>

<propertyname="customercontact"value="89045"/>

<propertyname="street"ref="Customeraddress"/>

<propertyname="city"ref="Customeraddress"/>

<propertyname="state"ref="Customeraddress"/>

<propertyname="zip"ref="Customeraddress"/>

<propertyname="country"ref="Customeraddress"/>

</bean>

<beanid="Customeraddress"class="spring\_exp1.Address">

<propertyname="street"value="30"/>

<propertyname="city"value="Nagpur"/>

<propertyname="state"value="Maharashtra"/>

<propertyname="zip"value="5703456"/>

<propertyname="country"value="India"/>

</bean>

</beans>

**Output:**

Jan 24, 2022 4:02:57 PM org.springframework.context.support.AbstractApplicationContextprepareRefresh

INFO: Refreshing org.springframework.context.support.ClassPathXmlApplicationContext@2038ae61: startup date [Mon Jan 24 16:02:57 IST 2022]; root of context hierarchy

Jan 24, 2022 4:02:57 PM org.springframework.beans.factory.xml.XmlBeanDefinitionReaderloadBeanDefinitions

INFO: Loading XML bean definitions from class path resource [spring1.xml]

id:1 name:Ram Contact:89045

Customeraddress30

Mysore

karanataka

5703456

India

2.create a question class

**publicclass** Question {

ListquestionList;

Setquestionset;

Mapquestionmap;

**public**ListgetQuestionList() {

System.***out***.println("list:" + questionList);

**return**questionList;

}

**publicvoid**setQuestionList(ListquestionList) {

**this**.questionList = questionList;

}

**public**SetgetQuestionset() {

System.***out***.println("set:" + questionset);

**return**questionset;

}

**publicvoid**setQuestionset(Setquestionset) {

**this**.questionset = questionset;

}

**public**MapgetQuestionmap() {

System.***out***.println("map:" + questionmap);

**return**questionmap;

}

**publicvoid**setQuestionmap(Mapquestionmap) {

**this**.questionmap = questionmap;

}

}

**package** spring\_example2;

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

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

**import**spring\_exp1.Customer;

**publicclass** Main {

**publicstaticvoid** main(String[] args) {

// **TODO** Auto-generated method stub

ApplicationContextcontext=**new**ClassPathXmlApplicationContext("spring2.xml");

Question question = (Question) context.getBean("Question");

question.getQuestionList();

question.getQuestionmap();

question.getQuestionset();

}

}

<beansxmlns = "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-3.0.xsd">

<beanid = "Question"class="spring\_example2.Question">

<propertyname="questionList">

<list>

<value>1</value>

<value>what is ur name</value>

<value>raj</value>

</list>

</property>

<propertyname="questionset">

<set>

<value>1</value>

<value>what is ur name</value>

<value>raj</value>

</set>

</property>

<propertyname = "questionmap">

<map>

<entrykey = "1"value = "1"/>

<entrykey = "2"value = "what is ur name"/>

<entrykey = "3"value = "raj"/>

</map>

</property>

</bean>

</beans>

Output:

Jan 24, 2022 4:04:10 PM org.springframework.context.support.AbstractApplicationContextprepareRefresh

INFO: Refreshing org.springframework.context.support.ClassPathXmlApplicationContext@2038ae61: startup date [Mon Jan 24 16:04:10 IST 2022]; root of context hierarchy

Jan 24, 2022 4:04:10 PM org.springframework.beans.factory.xml.XmlBeanDefinitionReaderloadBeanDefinitions

INFO: Loading XML bean definitions from class path resource [spring2.xml]

list:[1, what is ur name, raj]

map:{1=1, 2=what is ur name, 3=raj}

set:[1, what is ur name, raj]