**Practical 7c**

**Aim:** Configure a Spring bean Car with properties make and model. Inject dependencies using XML configuration and demonstrate accessing this bean in a Spring application.

**Solution:**

**Create maven project**

**Add dependency in pom.xml file**

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-core</artifactId>

<version>5.2.2.RELEASE</version>

</dependency>

<!-- https://mvnrepository.com/artifact/org.springframework/spring-context -->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

<version>5.2.2.RELEASE</version>

</dependency>

**Create a new class Car.java**

**Add getter, setter, tostring(), constructors**

**Car.java**

**package** sybca.carexample;

**public** **class** Car {

**private** String model;

**private** String make;

**public** Car() {

**super**();

// **TODO** Auto-generated constructor stub

}

**public** Car(String model, String make) {

**super**();

**this**.model = model;

**this**.make = make;

}

@Override

**public** String toString() {

**return** "Car [model=" + model + ", make=" + make + "]";

}

**public** String getModel() {

**return** model;

}

**public** **void** setModel(String model) {

**this**.model = model;

}

**public** String getMake() {

**return** make;

}

**public** **void** setMake(String make) {

**this**.make = make;

}

}

**Add config.xml file and add bean(car1, car2)**

**Config.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:context="http://www.springframework.org/schema/context"

xmlns:p="http://www.springframework.org/schema/p"

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans.xsd

http://www.springframework.org/schema/context

http://www.springframework.org/schema/context/spring-context.xsd">

<bean class="sybca.carexample.Car" name="car1" >

<property name="model" value="Wagon R"/>

<property name="make" value="2000"/>

</bean>

<bean class="sybca.carexample.Car" name="car2" >

<property name="model" value="Alto"/>

<property name="make" value="2010"/>

</bean>

</beans>

**In App.java file get bean**

**package** sybca.carexample;

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

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

**public** **class** App

{

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

{

ApplicationContext context=**new** ClassPathXmlApplicationContext("sybca/carexample/config.xml");

Car car1=(Car) context.getBean("car1");

System.***out***.println(car1);

Car car2=(Car) context.getBean("car2");

System.***out***.println(car2);

}

}

**Run the application**

Car [model=Wagon R, make=2000]

Car [model=Alto, make=2010]