**10.4 Aim:** **Write a program to demonstrate dependency injection via Constructor for dependent object/Reference Type. (Employee Application)**

**Code-**

**FullName.java**

**package** org.viva;

**public** **class** FullName {

**private** String Fname;

**private** String Mname;

**private** String Lname;

**public** FullName(String fname, String mname, String lname) {

**super**();

Fname = fname;

Mname = mname;

Lname = lname;

}

**public** String toString(){

**return** Fname+" "+Mname+" "+Lname;

}

}

**Employee.java**

**package** org.viva;

**public** **class** Employee {

**int** id;

FullName name;

**public** Employee(**int** id, FullName name) {

**super**();

**this**.id = id;

**this**.name = name;

}

**void** show(){

System.***out***.println("Id:"+id);

System.***out***.println("Full Name:"+name);

}

}

**Context.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"

xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans.xsd">

<bean id="a1" class="org.viva.FullName">

<constructor-arg value="JASMINE"></constructor-arg>

<constructor-arg value="ANU"></constructor-arg>

<constructor-arg value="DUBEY"></constructor-arg>

</bean>

<bean id="e" class="org.viva.Employee">

<constructor-arg value="11" type="int"></constructor-arg>

<constructor-arg><ref bean="a1"/></constructor-arg>

</bean>

</beans>

**EmployeeTest.java**

**package** org.viva;

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

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

**public** **class** EmployeeTest {

**private** **static** ApplicationContext *appCon*;

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

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

*appCon* = **new** ClassPathXmlApplicationContext("Context.xml");

Employee factory=(Employee)*appCon*.getBean("e");

factory.show();

}

}