**10.5 Aim:** **Write a program to demonstrate dependency injection via setter method for dependent object/reference type (Shape Application).**

**Code-**

**Shape.java**

**package** org.viva;

**public** **interface** Shape {

**void** show();

}

**Circle.java**

**package** org.viva;

**public** **class** Circle **implements** Shape {

@Override

**public** **void** show() {

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

System.***out***.println("I am Circle");

}

}

**ShapeManager.java**

**package** org.viva;

**public** **class** ShapeManager {

Shape myShape;

**public** **void** show()

{

**this**.myShape.show();

}

**public** Shape getMyShape() {

**return** myShape;

}

**public** **void** setMyShape(Shape myShape) {

**this**.myShape = myShape;

}

}

**Appctx1.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="Circle" class="org.viva.Circle"></bean>

<bean id="ShapeMan" class="org.viva.ShapeManager">

<property name="myShape" ref="Circle"></property>

</bean>

</beans>

**ShapeManagerTest.java**

**package** org.viva;

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

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

**public** **class** ShapeManagerTest {

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

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

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

*appCon* = **new** ClassPathXmlApplicationContext("Appctx1.xml");

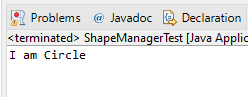
ShapeManager factory=(ShapeManager)*appCon*.getBean("ShapeMan");

factory.show();

}

}

**Output –**

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