

Java lab 1

Knight.java

```
package nmitd.spring.lab1;

public interface Knight {

    public void embarkOnMission();
}
```

BraveKnight.java

```
package nmitd.spring.lab1;

public class BraveKnight implements Knight {
    private Quest quest;

    public BraveKnight(Quest quest)
    {
        this.quest=quest;
    }
    public void embarkOnMission() {
        // TODO Auto-generated method stub
        quest.executeMission();
    }

}
```

Quest.java

```
package nmitd.spring.lab1;

public interface Quest {

    public void executeMission();
}
```

KillDragon.java

```
package nmitd.spring.lab1;
import java.io.PrintStream;
public class KillDragon implements Quest {
    private PrintStream stream;

    public KillDragon(PrintStream stream)
    {
        this.stream=stream;
    }
    @Override
    public void executeMission() {
        // TODO Auto-generated method stub
        stream.println("Executing mission to kill the dragon!");
    }

}
```

KnightQuestMain.java

```
package nmitd.spring.lab1;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class KnightQuestMain {
    public static void main(String[] args) {
        ClassPathXmlApplicationContext ctx=new
ClassPathXmlApplicationContext("nmitd/spring/lab1/myBeans.xml");
        Knight p1=ctx.getBean("prince", Knight.class);
        p1.embarkOnMission();
        ctx.close();
    }
}
```

myBeans.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="prince" class="nmitd.spring.lab1.BraveKnight">
        <constructor-arg ref="quest1"/>
    </bean>

    <bean id="quest1" class="nmitd.spring.lab1.KillDragon">
        <constructor-arg value="#{T(System).out}"/>
    </bean>
</beans>
```

Output:

