C22058 January 11, 2023

```
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!");
      }
}
```

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```
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"</pre>
      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:
Source Namespaces Overview beans Beans Graph

    Markers □ Properties ♣ Servers ♥ Data Source Explorer □ Snippets □ Console ×

<terminated> KnightQuestMain [Java Application] C:\Users\HP\Downloads\eclipse-jee-202
Executing mission to kill the dragon!
                                            Writable
                                                                Smart
```