**Injecting Inner Beans:**

Write a bean named Flute which shall implement Instrument interface.

a. Configure the Instrumentalist bean in Spring container by declaring them in XML file.

b. Declare Flute bean as inner bean to the Instrumentalist bean in the XML file.

c. Create a main class InnerBeanDemo and obtain the Instrumentalist object from Spring container and call its perform method.

**Injecting Collection:**

Write a bean named OneManBand which implements Performer interface.

1. OneManBand shall have a property instruments of type java.util.Collection
2. Write a bean named Guitar which implements Instrument interface
3. Inject the collection of instuments( Flute,Saxophone,Guitar) through setter injection to the OneManBand bean.
4. Inside perform method of OneManBand bean, iterate the collection of instruments and play method of each instrument
5. Create a main class CollectionBeanDemo and obtain the OneManBand object from Spring container and call its perform method.

**Bean Auto –wiring**

1. Write a bean named Musician which implements the interface Performer.

1. The Musician bean shall have a property named ‘MyFavoriteInstreument’ of type Instrument.
2. Write a bean named ‘Veena’ which implements the interface Instrument.
3. Configure the bean ‘Veena’ in XML file with id value as ‘MyFavoriteInstrument’
4. Configure the bean ‘Musician’ in XML file with ‘autowire’ ‘byName’.
5. Create a main class AutoWireBeanDemo and obtain the Musician object from Spring container and call its perform method.

2. For the previous problem, configure the bean ‘Musician’ in XML file with autoWire ‘byType’

**Wiring with annotations**:

Write a bean named ‘Guitarist’ which implements the interface Performer.

1. Guitarist’ bean shall have a property named ‘myGuitar’of type Instrument.
2. Write a bean named ‘Guitar’ which implements the interface Instrument.
3. Configure the beans in XML file
4. Inject the ‘Guitar’ bean into ‘Guitarist’ by annotation based autowiring.