create a bean class college and department:

```
package com.example.Institute;
                                                package com.example.Institute;
public class College {
                                                public class Department {
       String Name, Address;
                                                        String name, description;
       public String getName() {
                                                        int id;
               return Name;
                                                        College college;
                                                        public Department(College college) {
       public void setName(String name) {
                                                               this.college = college;
               Name = \underline{\text{name}};
                                                        public College getCollege() {
       public String getAddress() {
                                                               return college;
               return Address;
                                                        public void setCollege(College college) {
                                                               this.college = college;
       public void setAddress(String address)
               Address = address;
                                                        public String getName() {
                                                               return name;
                                                        public void setName(String name) {
                                                               this.name = name;
                                                        public String getDescription() {
                                                               return description;
                                                        public void setDescription(String description) {
                                                               this.description = description;
                                                        public int getId() {
                                                               return id;
                                                        public void setId(int id) {
                                                               this.id = id;
                                                }
```

Mainclass for the spring boot to execute:

```
package com.example.Institute;
//Imports

@SpringBootApplication
public class DemoApplication {

   public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        SpringApplication.run(DemoApplication.class, args);
}
```

```
Department dt = (Department)ac.getBean("department");
       while(true) {
              System.out.println("1. insert the Department details\n"
                             + "2. Display Department with College details \n"
                             + "3. exit");
              System.out.println("enter the choice");
              int a = sc.nextInt();
              switch(a) {
                     case 1:
                             System.out.println("enter the Department name");
                                    dt.setName(sc.next());
                                    System.out.println("enter the Department no");
                                    dt.setId(sc.nextInt());
                                    System.out.println("enter the Department Decription");
                                    dt.setDescription(sc.next());
                                    System.out.println("thanks for input");
                                    break;
                     case 2:
                             System.out.println("Department Details:");
                             System.out.println("Name:"+dt.getName()+" "+"
ID:"+dt.getId()+
                                            " Department Description"+dt.getDescription());
                             System.out.println("College Details");
                             College c = dt.getCollege();
                             System.out.println("College Name: "+c.getName());
                             System.out.println("College Address: "+c.getAddress());
                             break;
                     case 3:
                             System.exit(0);
              }
TestBean.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"
              https://www.springframework.org/schema/beans/spring-beans.xsd">
       <bean id="department" class="com.example.Institute.Department"</pre>
scope="prototype">
          <constructor-arg name="college" ref="college"/>
       </bean>
       <bean id="college" class="com.example.Institute.College" scope="singleton">
```

ApplicationContext ac = new ClassPathXmlApplicationContext("testBean.xml");