

7. Write a program to demonstrate Autowiring

TestAuto.java

```
package com.spr;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
public class TestAuto {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        ApplicationContext con = new ClassPathXmlApplicationContext("spring.xml");

        Employee employee = (Employee) con.getBean("Employee");

        System.out.println("The name of Employee is : " + employee.getName());
        System.out.println("The age of Employee is : " + employee.getAge());
        System.out.println(employee);
    }
}
```

Address.java

```
package com.spr;
public class Address {
    private String street;
    private String city;
    private String state;
    public String getStreet() {
        return street;
    }
    public void setStreet(String street) {
        this.street = street;
    }
    public String getCity() {
        return city;
    }
    public void setCity(String city) {
        this.city = city;
    }
    public String getState() {
        return state;
    }
    public void setState(String state) {
        this.state = state;
    }
    public Address(String street, String city, String state) {
    }
}
```

```
        super();
        this.street = street;
        this.city = city;
        this.state = state;
    }
    public Address() {
        super();
        // TODO Auto-generated constructor stub
    }
    @Override
    public String toString() {
        return "Address [street=" + street + ", city=" + city + ", state=" + state + "];"
    }
}
```

Employee.java

package com.spr;

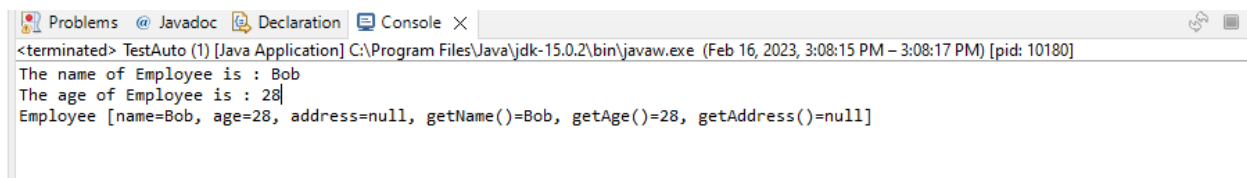
```
public class Employee {
    private String name;
    private int age;
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public int getAge() {
        return age;
    }
    public void setAge(int age) {
        this.age = age;
    }
    public Address getAddress() {
        return address;
    }
    public void setAddress(Address address) {
        this.address = address;
    }
    public Employee(String name, int age, Address address) {
        super();
        this.name = name;
        this.age = age;
        this.address = address;
    }
}
```

```
private Address address;  
@Override  
public String toString() {  
    return "Employee [name=" + name + ", age=" + age + ", address=" + address + ",  
getName()=" + getName()  
        + ", getAge()=" + getAge() + ", getAddress()=" + getAddress() +  
    "];"  
}  
public Employee() {  
    super();  
    // TODO Auto-generated constructor stub  
}  
}
```

Spring.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="Employee" class="com.spr.Employee" autowire="constructor">  
        <property name="name" value="Bob" />  
        <property name="age" value="28" />  
    </bean>  
    <bean id="Address" class="com.spr.Address">  
        <property name="street" value="JSD Street" />  
        <property name="city" value="Mumbai" />  
        <property name="state" value="Maharashtra"></property>  
    </bean>  
</beans>
```

Output:



The screenshot shows a Java IDE console window with the following output:

```
<terminated> TestAuto (1) [Java Application] C:\Program Files\Java\jdk-15.0.2\bin\javaw.exe (Feb 16, 2023, 3:08:15 PM – 3:08:17 PM) [pid: 10180]  
The name of Employee is : Bob  
The age of Employee is : 28  
Employee [name=Bob, age=28, address=null, getName()=Bob, getAge()=28, getAddress()=null]
```