```
Skill.java:
```

```
package com.cognizant.spring_learn.model;
public class Skill {
  private String name;
  public Skill() {
  }
  public Skill(String name) {
    this.name = name;
  }
  public String getName() {
    return name;
  }
  public void setName(String name) {
    this.name = name;
  }
  public String toString() {
    return "Skill{name="" + name + ""}";
  }
}
Employee.java:
package com.cognizant.spring_learn.model;
import java.util.Date;
import java.util.List;
public class Employee {
  private int id;
  private String name;
  private double salary;
  private boolean permanent;
  private Date dateOfBirth;
  private Department department;
  private List<Skill> skillList;
```

```
public Employee() {
  }
  public Employee(int id, String name, double salary, boolean permanent, Date dateOfBirth,
Department department, List<Skill> skillList) {
    this.id = id;
    this.name = name;
    this.salary = salary;
    this.permanent = permanent;
    this.dateOfBirth = dateOfBirth;
    this.department = department;
    this.skillList = skillList;
  }
  public int getId() {
    return id;
  }
  public void setId(int id) {
    this.id = id;
  }
  public String getName() {
    return name;
  }
  public void setName(String name) {
    this.name = name;
  }
  public double getSalary() {
    return salary;
  }
  public void setSalary(double salary) {
    this.salary = salary;
  }
  public boolean isPermanent() {
```

```
return permanent;
}
public void setPermanent(boolean permanent) {
  this.permanent = permanent;
}
public Date getDateOfBirth() {
  return dateOfBirth;
}
public void setDateOfBirth(Date dateOfBirth) {
  this.dateOfBirth = dateOfBirth;
}
public Department getDepartment() {
  return department;
}
public void setDepartment(Department department) {
  this.department = department;
}
public List<Skill> getSkillList() {
  return skillList;
}
public void setSkillList(List<Skill> skillList) {
  this.skillList = skillList;
}
public String toString() {
  return "Employee{" +
      "id=" + id +
      ", name="" + name + '\" +
      ", salary=" + salary +
      ", permanent=" + permanent +
      ", dateOfBirth=" + dateOfBirth +
      ", department=" + department +
```

```
", skillList=" + skillList +
        '}';
  }
}
Department.java:
package com.cognizant.spring_learn.model;
public class Department {
  private int id;
  private String name;
  public Department() {
  }
  public Department(int id, String name) {
    this.id = id;
    this.name = name;
  }
  public int getId() {
    return id;
  }
  public void setId(int id) {
    this.id = id;
  }
  public String getName() {
    return name;
  }
  public void setName(String name) {
    this.name = name;
  }
  public String toString() {
    return "Department{id=" + id + ", name="" + name + ""}";
  }
}
```

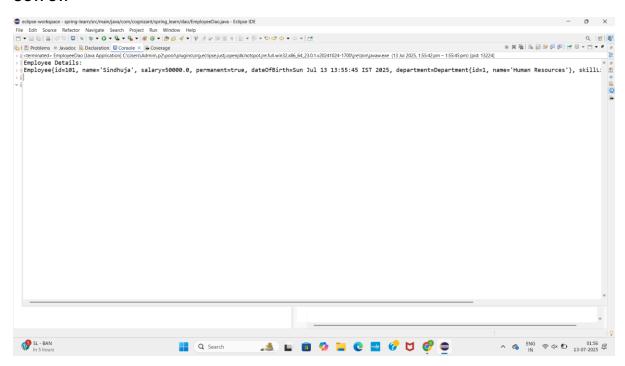
```
EmployeeDao.java:
package com.cognizant.spring_learn.dao;
import com.cognizant.spring_learn.model.Employee;
import org.springframework.context.ApplicationContext;
import\ org. spring framework. context. support. Class Path Xml Application Context;
public class EmployeeDao {
  public static void main(String[] args) {
    ApplicationContext context = new ClassPathXmlApplicationContext("employee.xml");
    Employee employee = (Employee) context.getBean("employee");
    System.out.println("Employee Details:");
    System.out.println(employee);
  } }
Employee.xml:
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
   xmlns:ctx="http://www.springframework.org/schema/context"
   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
   http://www.springframework.org/schema/context
   https://www.springframework.org/schema/context/spring-context.xsd">
  <bean id="department" class="com.cognizant.spring_learn.model.Department">
    cproperty name="id" value="1"/>
    property name="name" value="Human Resources"/>
  </bean>
  <bean id="skill1" class="com.cognizant.spring_learn.model.Skill">
    cproperty name="name" value="Java"/>
```

<bean id="skill2" class="com.cognizant.spring_learn.model.Skill">

property name="name" value="MySQL"/>

</bean>

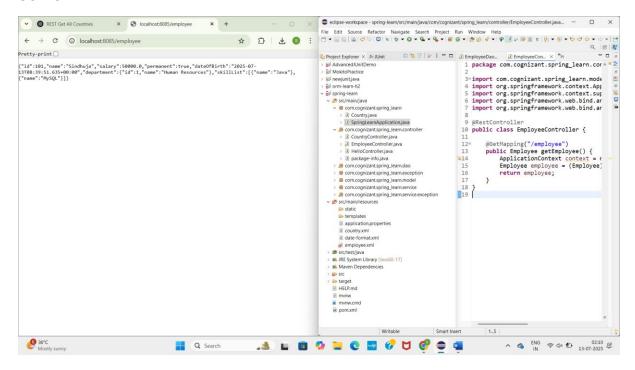
```
</bean>
  <bean id="employee" class="com.cognizant.spring_learn.model.Employee">
    cproperty name="id" value="101"/>
    cproperty name="name" value="Sindhuja"/>
    cproperty name="salary" value="50000"/>
    cproperty name="permanent" value="true"/>
    property name="dateOfBirth">
      <bean class="java.util.Date"/>
    </property>
    cproperty name="department" ref="department"/>
    cproperty name="skillList">
      <list><ref bean="skill1"/>
        <ref bean="skill2"/> </list>
    </property>
  </bean>
</beans>
```



Build REST controller to return the employee data:

REST Controller to Return Static Employee Data:

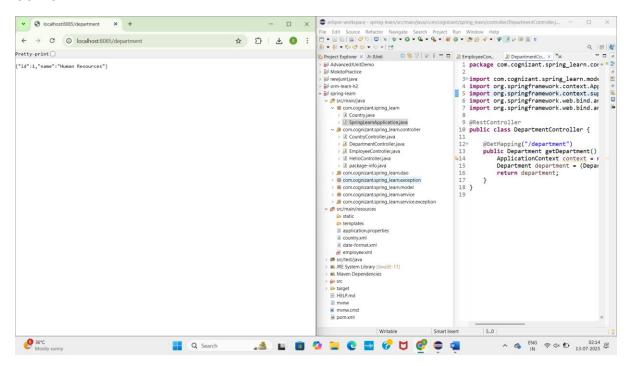
```
package com.cognizant.spring_learn.controller;
import com.cognizant.spring_learn.model.Employee;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
@RestController
public class EmployeeController {
    @GetMapping("/employee")
    public Employee getEmployee() {
        ApplicationContext context = new ClassPathXmlApplicationContext("employee.xml");
        Employee employee = (Employee) context.getBean("employee");
        return employee;
    }
}
```



Create a REST controller to return Department data:

package com.cognizant.spring_learn.controller; import com.cognizant.spring_learn.model.Department; import org.springframework.context.ApplicationContext;

```
import org.springframework.context.support.ClassPathXmlApplicationContext;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
@RestController
public class DepartmentController {
    @GetMapping("/department")
    public Department getDepartment() {
        ApplicationContext context = new ClassPathXmlApplicationContext("employee.xml");
        Department department = (Department) context.getBean("department");
        return department;
    }
}
```



REST controller to return Skill list:

package com.cognizant.spring_learn.controller;

import com.cognizant.spring_learn.model.Employee;

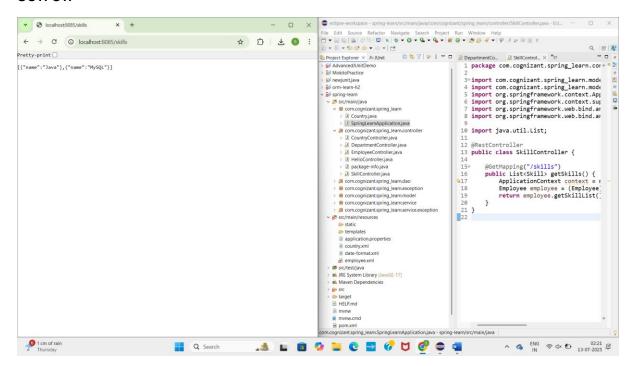
import com.cognizant.spring_learn.model.Skill;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import org.springframework.web.bind.annotation.GetMapping;

```
import org.springframework.web.bind.annotation.RestController;
import java.util.List;
@RestController
public class SkillController {
    @GetMapping("/skills")
    public List<Skill> getSkills() {
        ApplicationContext context = new ClassPathXmlApplicationContext("employee.xml");
        Employee employee = (Employee) context.getBean("employee");
        return employee.getSkillList();
    }
}
```



Create a REST controller to return all employee details from hardcoded list:

EmployeeListController.java:

```
package com.cognizant.spring_learn.controller;
import com.cognizant.spring_learn.model.Department;
import com.cognizant.spring_learn.model.Employee;
import com.cognizant.spring_learn.model.Skill;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
```

```
import java.util.Arrays;
import java.util.Date;
import java.util.List;
@RestController
public class EmployeeListController {
  @GetMapping("/employees")
  public List<Employee> getAllEmployees() {
    Department dept = new Department(1, "HR");
    Skill skill1 = new Skill("Java");
    Skill skill2 = new Skill("MySQL");
    Employee emp1 = new Employee(201, "Sindhu", 70000, true, new Date(), dept,
Arrays.asList(skill1));
    Employee emp2 = new Employee(202, "Ram", 60000, false, new Date(), dept,
Arrays.asList(skill2));
    Employee emp3 = new Employee(203, "Priya", 80000, true, new Date(), dept, Arrays.asList(skill1,
skill2));
    return Arrays.asList(emp1, emp2, emp3);
  }}
```

