**1)**

**movieindex.html**

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"movie.jsp"* method=*"post"*>

Name <input type=*"text"* name=*"name"*/><br>

Age <input type=*"number"* name=*"age"*/><br>

<input type=*"submit"* value=*"submit"*/>

</form>

</body>

</html>

**movie.jsp:**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%

**try**

{

**float** price;

String name=request.getParameter("name");

**int** age=Integer.parseInt(request.getParameter("age"));

**if**(age>62)

{

price=7.00f;

}

**else** **if**(age<10)

{

price=5.00f;

}

**else**

{

price=9.50f;

}

request.setAttribute("name",name);

request.setAttribute("age",age);

request.setAttribute("price",price);

ServletContext ctx=**this**.getServletContext();

RequestDispatcher rd=ctx.getRequestDispatcher("/finalmovie.jsp");

rd.forward(request, response);

}

**catch**(Exception e)

{

out.println(e);

}

%>

</body>

</html>

**finalmovie.jsp**:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%

String uname=(String)request.getAttribute("name");

**int** uage=(Integer)request.getAttribute("age");

**float** uprice=(**float**)request.getAttribute("price");

response.setContentType("text/html");

out.println("<html><body>");

out.println("name :"+uname);

out.println("<br>age :"+uage);

out.println("<br>price :$"+uprice);

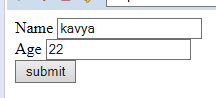
out.println("</html></body>");

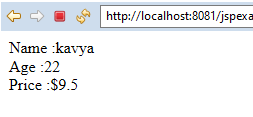
%>

</body>

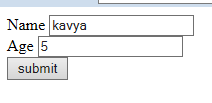
</html>

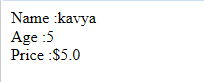
**Output: 1)**



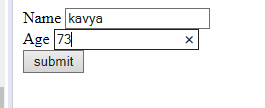


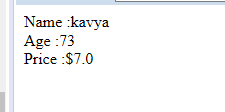
**2)**





**3)**





**======================================================================**

**3)**

**BeanLifeCycleMain.java :**

**package** springexamples;

**import** org.springframework.context.support.AbstractApplicationContext;

**import** org.springframework.context.support.ClassPathXmlApplicationContext;

**public** **class** BeanLifeCycleMain {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

AbstractApplicationContext context = **new** ClassPathXmlApplicationContext("beanlifecycle.xml");

BeanLifeCycle blc = (BeanLifeCycle) context.getBean("beanlifecycle");

blc.getMessage();

context.registerShutdownHook();

}

}

BeanLifeCycle:

**package** springexamples;

**public** **class** BeanLifeCycle {

**private** String message;

**public** **void** setMessage(String message){

**this**.message=message;

}

**public** **void** getMessage(){

System.***out***.println("Your Message : "+ message);

}

**public** **void** init(){

System.***out***.println("Bean is going through init");

}

**public** **void** destroy(){

System.***out***.println("Bean will destroy now");

}

}

beanlifecycle.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-3.0.xsd"*>

<bean id=*"beanlifecycle"* class=*"springexamples.BeanLifeCycle"*

init-method=*"init"* destroy-method=*"destroy"*>

<property name=*"message"* value=*"Hello World!"*/>

</bean>

<bean class=*"springexamples.InitBeanLifeCycle"* />

</beans>

InitBeanLifeCycle.java:

**package** springexamples;

**import** org.springframework.beans.factory.config.BeanPostProcessor;

**import** org.springframework.beans.BeansException;

**public** **class** InitBeanLifeCycle **implements** BeanPostProcessor {

**public** Object postProcessBeforeInitialization(Object bean, String beanName)

**throws** BeansException {

System.***out***.println("Before Initialization : " + beanName);

**return** bean;

}

**public** Object postProcessAfterInitialization(Object bean, String beanName)

**throws** BeansException {

System.***out***.println("After Initialization : " + beanName);

**return** bean;

}

}

Output:

Before Initialization : beanlifecycle

Bean is going through init

After Initialization : beanlifecycle

Your Message : Hello World!

Bean will destroy now

=====================================================================

4)Test.java

**package** springexamples;

**import** org.springframework.beans.factory.BeanFactory;

**import** org.springframework.beans.factory.xml.~~XmlBeanFactory~~;

**import** org.springframework.core.io.\*;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

Resource r=**new** ClassPathResource("dep.xml");

BeanFactory factory=**new** ~~XmlBeanFactory~~(r);

Emp s=(Emp)factory.getBean("e");

s.Display();

}

}

dep.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"*

xmlns:p=*"http://www.springframework.org/schema/p"*

xsi:schemaLocation=*"http://www.springframework.org/schema/beans*

*http://www.springframework.org/schema/beans/spring-beans-3.0.xsd"*>

<bean id=*"a1"* class=*"springexamples.Addr"*>

<constructor-arg value=*"vijayawada"*></constructor-arg>

<constructor-arg value=*"AndhraPradesh"*></constructor-arg>

<constructor-arg value=*"India"*></constructor-arg>

</bean>

<bean id=*"e"* class=*"springexamples.Emp"*>

<constructor-arg value=*"22"* type=*"int"*></constructor-arg>

<constructor-arg value=*"KAVYA"*></constructor-arg>

<constructor-arg>

<ref bean=*"a1"*/>

</constructor-arg>

<constructor-arg>

<map>

<entry key=*"1"* value=*"CTS"*></entry>

<entry key=*"2"* value=*"PAT"*></entry>

<entry key=*"3"* value=*"JAVA"*></entry>

</map>

</constructor-arg>

</bean>

</beans>

Emp.java:

**package** springexamples;

**import** java.util.Iterator;

**import** java.util.Map;

**import** java.util.Map.Entry;

**import** java.util.Set;

**public** **class** Emp {

**private** **int** id;

**private** String name;

**private** Map<String,String> answers;

**private** Addr addr;

**public** Emp()

{

System.***out***.println("def cons");

}

**public** Emp(**int** id, String name, Map<String, String> answers,Addr addr) {

**super**();

**this**.id = id;

**this**.name = name;

**this**.answers=answers;

**this**.addr = addr;

}

**public** **void** Display()

{

System.***out***.println(id+" "+name);

System.***out***.println(addr.toString());

Set<Entry<String, String>> set=answers.entrySet();

Iterator<Entry<String, String>> itr=set.iterator();

**while**(itr.hasNext()){

Entry<String,String> entry=itr.next();

System.***out***.println(entry.getKey()+" "+ entry.getValue());

}

}

}

Addr.java:

**package** springexamples;

**public** **class** Addr {

**private** String city;

**private** String state;

**private** String country;

**public** Addr(String city, String state, String country) {

**super**();

**this**.city = city;

**this**.state = state;

**this**.country = country;

}

**public** String toString(){

**return** city+" "+state+" "+country;

}

}

Output:

22 KAVYA

vijayawada AndhraPradesh India

1 CTS

2 PAT

3 JAVA

=================================================================

5)

TestEmp.java:

**package** Exam;

**import** java.util.Iterator;

**import** java.util.List;

**import** org.springframework.context.ApplicationContext;

**import** org.springframework.context.support.ClassPathXmlApplicationContext;

**public** **class** TestEmp {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

ApplicationContext ctx=**new** ClassPathXmlApplicationContext("application-context.xml");

EmployeeDaoImpl dao=(EmployeeDaoImpl)ctx.getBean("edaoimpl");

List<Employee> employee =dao.getEmployee();

Iterator<Employee> itr=employee.iterator();

**for**(Employee e:employee)

{

System.***out***.println(e.getEname()+" | " +e.getEmpid()+" | "+e.getDept()+" | "+e.getDesig()+" | "+e.getEmail());

}

dao.getEmployee();

}

}

Employee.java

**package** Exam;

**public** **class** Employee {

**private** String empid;

**private** String ename;

**private** String dept;

**private** String desig;

**private** String email;

**public** Employee()

{

}

**public** Employee(String empid, String ename, String dept, String desig, String email) {

**super**();

**this**.empid = empid;

**this**.ename = ename;

**this**.dept = dept;

**this**.desig = desig;

**this**.email = email;

}

**public** Employee(String ename, String dept,String empid)

{

**super**();

**this**.empid = empid;

**this**.ename = ename;

**this**.dept = dept;

}

**public** String getEmpid() {

**return** empid;

}

**public** **void** setEmpid(String empid) {

**this**.empid = empid;

}

**public** String getEname() {

**return** ename;

}

**public** **void** setEname(String ename) {

**this**.ename = ename;

}

**public** String getDept() {

**return** dept;

}

**public** **void** setDept(String dept) {

**this**.dept = dept;

}

**public** String getDesig() {

**return** desig;

}

**public** **void** setDesig(String desig) {

**this**.desig = desig;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

}

EmployeeDao.java:

**package** Exam;

**import** java.util.List;

**public** **interface** EmployeeDao {

**public** List<Employee> getEmployee();

}

Application-context.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"*

xmlns:p=*"http://www.springframework.org/schema/p"*

xsi:schemaLocation=*"http://www.springframework.org/schema/beans*

*http://www.springframework.org/schema/beans/spring-beans-3.0.xsd"*>

<bean id=*"ds"* class=*"org.springframework.jdbc.datasource.DriverManagerDataSource"*>

<property name=*"driverClassName"* value=*"com.mysql.cj.jdbc.Driver"* />

<property name=*"url"* value=*"jdbc:mysql://localhost:3306/cts"* />

<property name=*"username"* value=*"root"* />

<property name=*"password"* value=*"root"* />

</bean>

<bean id=*"jdbcTemplate"* class=*"org.springframework.jdbc.core.JdbcTemplate"*>

<property name=*"dataSource"* ref=*"ds"*></property>

</bean>

<bean id=*"edaoimpl"* class=*"Exam.EmployeeDaoImpl"*>

<property name=*"jdbcTemplate"* ref=*"jdbcTemplate"*></property>

</bean>

</beans>

EmployeeDaoImpl.java:

**package** Exam;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.util.List;

**import** org.springframework.jdbc.core.JdbcTemplate;

**import** org.springframework.jdbc.core.RowMapper;

**public** **class** EmployeeDaoImpl **implements** EmployeeDao{

**private** JdbcTemplate jdbcTemplate;

**public** **void** setJdbcTemplate(JdbcTemplate jdbcTemplate)

{

**this**.jdbcTemplate = jdbcTemplate;

}

@Override

**public** List<Employee> getEmployee() {

// **TODO** Auto-generated method stub

String sql="select \* from employ";

List<Employee> list=jdbcTemplate.query(sql, **new** RowMapper<Employee>(){

**public** Employee mapRow(ResultSet rs, **int** rowNum) **throws** SQLException

{

Employee e=**new** Employee();

e.setEmpid(rs.getString("empid"));

e.setEname(rs.getString("ename"));

e.setDept(rs.getString("dept"));

e.setDesig(rs.getString("desig"));

e.setEmail(rs.getString("email"));

**return** e;

}

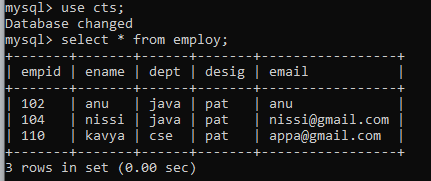
});

**return** list;

}

}

Output :



anu | 102 | java | pat | anu

nissi | 104 | java | pat | nissi@gmail.com

kavya | 110 | cse | pat | [appa@gmail.com](mailto:appa@gmail.com)