```
homePage.html  ---->


<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1 align = "center">Welcome to Learnern's Academy</h1> <ul>
                <li><a href="AcademyServlet">View students</a></li>
                <li><a href="addStudent.html">Add student</a></li>
        </ul>
        <ul>
                <li><a href="Login.html">View Teacher</a></li>
        </ul>
</body>
</html>




addStudent.html ---->



<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="AcademyServlet" method="post">
                <table>
                        <tr>
                                <td>Student Name</td>
                                <td><input name="name" /></td>
                        </tr>
                        <tr>
                                <td>standard</td>
                                <td><input name="standard" /></td>
                        </tr>
                        <tr>
                                <td>subject</td>
                                <td><input name="subject" /></td>
                        </tr>
```

```html
                    <tr>
                            <td>teacher</td>
                            <td><input name="teacher" /></td>
                    </tr>
                    <tr>
                            <td></td>
                            <td><input type="submit" value="Add" /></td>
                    </tr>
            </table>
    </form>

</body>
</html>
```

hibernate.cfg.xml   ----->

```xml
<?xml version='1.0' encoding='utf-8'?>
<!DOCTYPE hibernate-configuration PUBLIC
 "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
 "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>
    <session-factory>
            <!-- Database connection settings -->
            <property
name="connection.driver_class">com.mysql.jdbc.Driver</property>
            <property
name="connection.url">jdbc:mysql://localhost:3306/academy</property>
            <property name="connection.username">root</property>
            <property name="connection.password">Veda@1202189</property>
            <!-- SQL dialect -->
            <property
name="dialect">org.hibernate.dialect.MySQL57Dialect</property>

            <!-- format sql output -->
            <property name="hibernate.format_sql">true</property>

            <property name="hbm2ddl.auto">update</property>

            <!--  Use annotation basaed mapping metadata -->
            <mapping class="com.domain.student"/>
    </session-factory>
</hibernate-configuration>
```

Domain package   ---->

```java
package com.domain;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

@Entity
public class student {

@Id
@GeneratedValue(strategy = GenerationType.IDENTITY)
        private long id;
        private String name;
        private String standard;
        private String subject;
        private String teacher;

        public student(String name, String standard, String subject, String
teacher) {
                super();
                this.name = name;
                this.standard = standard;
                this.subject = subject;
                this.teacher = teacher;
        }

        public student() {

        }

        @Override
        public String toString() {
                return "student [id=" + id + ", name=" + name + ", standard=" +
standard + ", subject=" + subject + ", teacher="
                                + teacher + "]";
        }

        public long getId() {
                return id;
        }
        public void setId(long id) {
                this.id = id;
        }
        public String getName() {
                return name;
        }
```

```java
        public void setName(String name) {
                this.name = name;
        }
        public String getStandard() {
                return standard;
        }
        public void setStandard(String standard) {
                this.standard = standard;
        }
        public String getSubject() {
                return subject;
        }
        public void setSubject(String subject) {
                this.subject = subject;
        }
        public String getTeacher() {
                return teacher;
        }
        public void setTeacher(String teacher) {
                this.teacher = teacher;
        }


}
```

service java class   ------->


```java
package com.service;

import java.util.List;

import org.hibernate.Session;
import org.hibernate.Transaction;

import com.domain.student;
import  com.Utils.HibernateUtils;

public final class Academy {

        public  void addStudent(student student) {
                Session session = HibernateUtils.getSessionFactory().openSession();

                Transaction txn = session.getTransaction();
                try {
```

```java
                    txn.begin();

                    session.save(student);

                    txn.commit();

            } catch (Exception ex) {
                    if (txn != null) {
                            txn.rollback();
                    }
                    ex.printStackTrace();
            } finally {
                    if (session != null) {
                            session.close();
                    }
            }

    }

    public List<student> getStudents() {
            List<student> students = null;

            Session session = HibernateUtils.getSessionFactory().openSession();

            Transaction txn = session.getTransaction();

            try {

                    txn.begin();

                    students = session.createQuery("from student").list();

                    txn.commit();

            } catch (Exception ex) {
                    if (txn != null) {
                            txn.rollback();
                    }
                    ex.printStackTrace();
            } finally {
                    if (session != null) {
                            session.close();
                    }
            }

            return students;
    }


}
```

servlet ----->

```java
package com.servlet;

import java.io.IOException;
import java.util.List;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.domain.student;
import com.service.Academy;

@WebServlet("/AcademyServlet")
public class AcademyServlet extends HttpServlet {
        private static final long serialVersionUID = 1L;

        Academy academyService;

        public void init() throws ServletException {
                super.init();
                this.academyService = new Academy();
        }


        protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
                List<student> students = this.academyService.getStudents();

                request.setAttribute("students", students);

                RequestDispatcher rd =
request.getRequestDispatcher("/viewstudents.jsp");


                rd.forward(request, response);
        }
```

```java
        protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {

                String name = request.getParameter("name");
                String standard = request.getParameter("standard");
                String subject = request.getParameter("subject");
                String teacher = request.getParameter("teacher");



                student student = new student( name,  standard,  subject, teacher);

                this.academyService.addStudent(student);

                List<student> students = this.academyService.getStudents();

                request.setAttribute("students", students);

                RequestDispatcher rd =
request.getRequestDispatcher("/viewstudents.jsp");

                doGet(request, response);
        }

}




viewStudent.jsp   ---->


<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>Student List</h1>

        <table>
                <tr>
                        <th>Id</th>
                        <th>name</th>
                        <th>standard</th>
                        <th>subject</th>
                        <th>teacher</th>
                </tr>
```

```
            <c:forEach var="student" items="${students}">
                <tr>
                        <td>${student.id}</td>
                        <td>${student.name}</td>
                        <td>${student.standard}</td>
                        <td>${student.subject}</td>
                        <td>${student.teacher}</td>
                </tr>
            </c:forEach>
        </table>
        <br/>
        <a href="HomePage.html">Home</a>
</body>
</html>
```

-----end-----