

Exercise slot 9:

Exercise 01:

(2 points)

This question is intended to test your basic knowledge of how to use Servlet.

You are asked to create InforServlet that can be accessed via **/info**. The servlet will read its initial parameters as follows:

Parameter Name	Parameter Value
STUDENT_ID	[Your student ID, example SE0001]
PAPER_CODE	[Your paper number, example 3]

- You will manually add these parameters in Web.xml (1 point).
- When the user enters **/info** on the web browser's address bar, the Servlet displays the initial parameters. The below figure shows an example of a student who has a Student ID of "SE0001" and receives 3 as the paper number (1 point).

Student ID:	SE0001
Paper Code:	3

Note: A fixed text (without reading the initial parameters of the Servlet) to display info means nothing. You will get ZERO for this effort.

Exercise 02:

Tạo form cho phép nhập vào 1 số và trả ra kết quả thông báo số đó là số chẵn hay lẻ, có là số hoàn hảo hay không, có là số nguyên tố hay không?

Exercise 03:

**Preparation:**

1. Create your MS SQL database named **TestFinal** by running code in script **SQLFile.sql**.

**Questions:**

Create an **index.jsp** page with GUI as below figures:

Select student's major

RollNo	Major	FullName	City	Gender
SB03901	Business	Hoang Lan Phuong	Phu Tho	Female
SE03456	Engineering	Nguyen Thanh Tam	Ha Noi	Male

**Requirements:**

- Values for select control are **All, Engineering, Business and Others**. By default the selected value of select control is **All (0.1 Point)**
- At the running time, display the information of all students as table **(2.0 Point)**, order by Major **(0.2 Point)**

When the users select an item from select control and click Search, display the information of all Students who have major is equal to selected major from select control **(2.5 point)**. Data must be displayed on the page **index.jsp**, and the selected value on select control must be set to the one that has been selected **(1.0 Point)**.

Select student's major

RollNo	Major	FullName	City	Gender
SE03456	Engineering	Nguyen Thanh Tam	Ha Noi	Male

*The table must have the same columns with one in above figures and must on page **index.jsp***

When the users click on **Add new** button, browse to page **add.jsp** which will display the input form as the below figures **(1.0 Point)**.

### Enter the information of Student

Roll no

Major

Full name

City

Gender ☐ Male ☐ Female

#### Requirements:

- Values for select control are **Engineering, Business and Others**. By default the selected value of select control is Engineering **(0.1 Point)**.

When the users click on **Save** button, validate the data on the input form as rules:

- Require data for all text fields **(0.3 Point - 0.1 Point for each error message)**.
- Roll no must start with SE if major is Engineering and must start with SB if the major is Business **(0.2 Point)**.
- Gender must be selected **(0.1 Point)**.

All the validation must be DONE on **add.jsp** page.

When the validation is correct. Save information on input form to Student table **(2.0 Point)** and browse back to page **list.jsp**.

### Enter the information of Student

Roll no

Major

Full name

City

Gender ☒ Male ☐ Female

When user clicks on the Cancel button, browse back to page **list.jsp (0.5 Point)**