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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:

 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:

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)

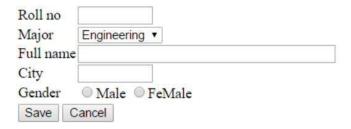
When the users select an item from select control and click Search, display the information of all Students who have major is equal to selected major from select control (2.5 point). Data must be displayed on the page index.jsp, and the selected value on select control must be set to the one that has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



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



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 Bussiness (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



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