

Databases and Information Systems Laboratory

Course code: CS313

Assignment 5

Date: 1st October 2022(11:59PM)

Total:100 Points

Part -A

- ✓ 1. Using the handout (JDBC Handout.pdf) which is uploaded on moodle, try out the java+jdbc code.
[Add the screenshots of the output] **10 Points**
- ✓ 2. Modify the code given to you to list departments (in asc order) and the total number of students and instructors they have. A template has been made in the provided source code(*Driver.java*), you need to fill up the template.
[submit your program along with the screenshots of the output] **20 Points**
- ✓ 3. Do the following preparedStatement : For a **given building**, **find classrooms** (**room_no**) **with capacity more than 30** and in which **no courses are scheduled this year and semester**. A template has been made in the provided source code(*Driver.java*), you need to fill up the template.
[submit your program along with the screenshots of the output] **20 Points**

Part -B

We have already shared the Java J2EE setup handout (J2EE Handout.pdf) with one servlet (StudentServlet.java) and html file (index.html). Do the setup, if not already done. Execute the StudentServlet file and index.html given with the handout.

1. Design a new html page to **take advisor id as input**. Write a servlet **to display the department** to which the **advisor belongs using the Java and J2EE program**. Output should contain advisor id and department name.
[20+20+10]= 50 Points
[Submit both(html and servlet) programs and Screenshots of output]

How to Submit?

*[Submit a **<roll_number>.zip** file which contains Part-A and Part-B in different folders with name Part-A and Part-B]*

NOTE:

1. Due date for Assignment is **1th October 2022(11:59 PM)**.
2. We will run a plagiarism check for all the submissions.
3. Submit your .zip file named with your **<roll_number>.zip**
4. Mode of submission is moodle.
5. Penalty for late submission is 15% of secured marks.
6. Penalty for plagiarism is 100% of the secured marks.

Instructions for Part-B :

You can refer to some of the following instructions :

1. Place the servlet mapping code in web.xml.

Example :Here ServletName is the name of your servlet file.

This following code snippet should be placed within <web-app></web-app> tags in the web.xml.

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
<welcome-file-list>
<welcome-file>index.html</welcome-file>
</welcome-file-list>
<servlet>
<servlet-name>StudentServlet</servlet-name>
<servlet-class>StudentServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>StudentServlet</servlet-name>
<url-pattern>/StudentServlet</url-pattern>
</servlet-mapping>
</web-app>
```

2. You can create your own html page for reading advisor id as input. But put the name of your servlet file correctly inside the form element.

Example :

```
<form action="StudentServlet">
```