BANGALORE INSTITUTE OF TECHNOLOGY
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
ACADEMIC YEAR 2023-2024 (EVEN SEM)
<u>ADVANCED JAVA (BIS402)</u>

Assignment 1: Answer 5 descriptive questions (1-8) and 5 programming questions (9-17) in detail. (10 Marks)

Deadline for submission: 12/7/2024

Sl. No.	Assignment Questions
1	Explain JDBC architecture
2	What is JDBC driver? What is its role? List the types of drivers and explain working of type-4 driver. Give the different ways to create the JDBC connection with example
3	Explain servlet life cycle with role of web container?
4	Explain MVC architecture in detail
5	What are cookies and sessions? How can you use them in Java EE? Compare them
6	JSP vs Servlet
7	List JSP implicit objects and explain any two
8	Explain usage of JSP Page directive with various attributes of it
9	Write a swing program to copy items from one JList to another JList.
10	Create an HTML page containing student name, class, Gender and hobbies (Singing, Reading, Dancing and Drawing). Display the details using servlet.
11	Write a JDBC program to insert details in the employee table. Emp_id, Emp_name, Emp_dept, Emp_salary. Insert minimum 5 records and display the table.

12	Writer a program using a Swing, in which Student Roll No, Name, Address and his email-Id is accepted from the GUI & stored it in database. With the functionality Add, Modify & Delete
13	Create a Java application, which will add, modify & delete records from Employee database. The database has 3 fields – Emp ID, Emp Name, and Dept Location. All information accept from GUI and store it in database. (Hint:-JDBC)
14	Write a program in Servlet, accept the username & password if it matches show the hello message. Otherwise make go to Login page with error message.
15	Write a program in Servlet generates the page which show session status, Session ID, creation time, last accessed time & max inactive interval with the two buttons Exit & Reload. If click on the on exit button session will expire & Give the facility to create new Session. Click on Reload button, page will once again reload.
16	Create a JSP page which shows System date & time with a message Hello India.
17	Write a Login servlet. Take input username and password from html file login.html and authenticate the user. Write the web.xml

Assignment 2: Group activity on Demonstration of java projects on database connectivity and J2EE concepts (Project demo-6 Marks and report submission–4Marks Total-10 Marks)

Report: Introduction, problem statement, objective, methodology (diagrams), description of packages and methods used, result

Note: Groups should be formed as per the serial number with 4 members in a group

Deadline: 25/7/24