# II-CSE-C&D – Mid-2 WT Lab Programs

12. a) Install the Apache Tomcat Server. Create the user defined the servlet class using Generic Servlet and/or HttpServlet class and execute the "Hello Servlet" message.

    b) Design a static HTML form in the Servlet application for Student details such as sname, hall ticket number, email, mobile number, internal & external marks and calculate total marks using doPost() method.

13. a) Implement the Servlet Request Dispatch Techniques to bypass the client request using forward() and include() methods.

    b) Demonstrate the Session Tracking techniques using HttpSession for Employee Login and Logout operations.

14. a) Write a JDBC program to create the employee table and to perform the CRUD operations on it. CRUD means insertion/creation of new record, retrieval of records, update and delete the existing records using Statement interface.

    b) Write a JDBC program to create the employee table and to perform the CRUD operations on it using PrepareStatement interface.

15. a) Write a JSP application of Bank customer details using JSP scripting elements which includes scriplet tag, expression tag and declaration tag.

    b) Demonstrate how to use the Cookies in session tracking of JSP application.

16. a) Demonstrate the voting systems based on the age of the student and if the student is major then he/she is eligible for voting (use jsp:forward action tag) and if minor then he/she is not eligible for voting system(use jsp:include action tag)

    b) Create the Simple bean and reuse the bean in multiple JSP pages using JSP action tags.

17. a) Create a student bean class and manage the student login details using JSP Model View Controller (MVC) where java bean class as a model, jsp as a view component and servlet as a controller.

    b) Create a user bean class and validate the user login credentials through MVC JSP using login table from database.

18. a) Write a JavaScript to validate the student registration form which includes username, password validation, retype password verification, mobile number and email validation, and age restriction(between 17-28 years).

    b) Write a JavaScript program to perform call by value and call by reference mechanisms.

*Note:*

- *I will give first question from first 7 programs and second question from next 7 programs in the mid-2 exam.*
- *All the programs (1 to 18) you should complete in your observation book.*
- *Without WT record and observation book you are not allowed for the mid-2 exam.*