CA4L1   **WEB TECHNOLOGIES**   **Credits : 2**

Lab Hours : 4 periods / week   Internal assessment : 25   Marks
                                  Semester and Examination: 50   Marks

---

1. Develop static pages (using Only HTML) of an online Bookstore. The pages should resemble: www.amazon.com. The website should consist
   the following pages.
   - Home page
   - Registration and user Login
   - User Profile Page
   - Books catalog
   - Shopping Cart
   - Payment By credit card
   - Order Conformation

2. Validate the Registration, user login, user profile and payment by credit card pages using JavaScript.

3. Create and save an XML document at the server, which contains 10 users information. Write a program, which takes User Id as an input and returns the user details by taking the user information from the XML document.

4. Write an applet program for Button, Label, Check Box, RadioButtons.

5. Write a Java program by using Swings to implement the Table.

6. Write a Java program using Swings implementing Buttons, CheckBoxes and Combobox in TabbedPanel.

7. Write a Small program to show how bean works for user colors bean?

8. Bean Assignments
   a. Create a Java Bean which gives the exchange value of INR (Indian Rupees) into equivalent American/Canadian/Australian Dollar value.
   b. Create a simple Bean with a label - which is the count of number of clicks. Than create a Bean Info class such that only the "count" property is visible in the Property Window.
   c. Create two Beans-a) Key Pad .b) Display Pad. After that integrate the two Beans to make it work as a Calculator.
   d. Create two Beans Traffic Light (Implemented as a Label with only three background colors-Red, Green, Yellow) and Automobile (Implemented as a Text Box which states its state/movement). The state of the Automobile should depend on the following Light Transition
   Table. Light Transition Automobile State
   Red   —>   Yellow Ready
   Yellow   —>   Green Move
   Green   —>   Red Stopped

9. Install TOMCAT web server. Convert the static web pages of assignments 2 into dynamic web pages using servlets and cookies. Hint: Users information (user id, password, credit card number) would be stored in web.xml. Each user should have a separate Shopping Cart.

10. Write a Program for generation of a servlet to display a small message?

11. Write a Servlet Program to retrieve data from text file?

12. Write a JSP Program to display a message?

13. Write a program in JSP by using for loop?

14. Write a Program for including our html program into JSP.

15. Create a small application with the usage of JAVA Beans, JSP and HTML?

16. Write a Java program for data base retrieval from Microsoft Office Access data base

17. Write a JSP program for data base retrieval from Microsoft Office Access data base?

18. Write a Servlet programming with cookies for userid and password?

19. Write a program to create cookies in JSP

20. Write a program to generate a message by using struts?

21. Create a JSP Programming by using MVC architecture? For books and users information.

22. Implement the "Hello World!" program using JSP Struts Framework