



Roll No.

Java Programming and Dynamic Webpage Design (BCA - 502)

Practical Questions

1. Write a Java program to demonstrate the use of different data types and control structures (if-else, switch, for loop, while loop).
2. Write a Java program that calculates the factorial of a given number using both recursion and iteration.
3. Write a Java program to find the second largest element in an array.
4. Write a Java program to check if a given string is a palindrome.
5. Write a Java program that demonstrates the use of interfaces, implementing multiple interfaces in a class.
6. Write a Java program to create two threads: one thread prints even numbers and another thread prints odd numbers between 1 and 100.
7. Write a Java program that inserts a new record into a MySQL database table and updates an existing record.
8. Write an applet that takes two numbers as input from the user and displays their sum.
9. Create a simple Java GUI using AWT with a Button that changes the background color when clicked.
10. Write a Java program that demonstrates the use of the **BorderLayout** and **FlowLayout**.
11. Write a program to count the number of objects created in a program?
12. Write a Java program that implements a client-server application using UDP (Datagram Socket) for sending and receiving messages.
13. Write a Java GUI application that changes text on a label when a button is clicked, demonstrating event handling.
14. Write a Java program to establish a connection with a MySQL database and retrieve data from a table.
15. Create a custom tag in JSP that takes user input (e.g., name, age) and displays it dynamically in different sections of the web page.
16. **Request Parameters:** Write a servlet that retrieves user input (name and age) from an HTML form and displays the information on another web page.
17. Create a web page that displays a table with different formatting options (rowspan, colspan, borders).
18. Create an image map in HTML, where clicking on different regions of an image navigates to different web pages.
19. **Servlet - Session Tracking:** Write a servlet that tracks user sessions using cookies and displays the number of times a user has visited the website.
20. **Dynamic Content:** Write a JSP page that takes input from the user (e.g., name, age) and generates a personalized greeting message.