



Subject: Advanced Java (01CT1623)

Experiment No:- 02

Marwadi University Faculty of Technology

Department of Information and Communication Technology

Aim: WAP that will take firstName, surName, email from user. Store that data into DB and display data from DB. (JDBC)

Date:- 30-01-2025 **Enrollment No:-** 92200133003

<u>Objective:-</u> WAP that will take firstName, surName, email from user. Store that data into DB and display data from DB. (JDBC)

Code :-

```
package org.example;
import java.sql.*;
import java.util.Scanner;
public class Main {
    public static void Insert(Statement statement) {
        Scanner scanner = new Scanner(System.in);
        int no of rows;
        System.out.print("Enter The Number of Rows You Have to Insert :- ");
        no of rows = scanner.nextInt();
        scanner.nextLine(); // Consume the newline character
        // Define the attributes (column names)
        String[] attribute = {"Username", "Email", "Enrollment", "Department", "Password"};
        String[][] data = new String[no_of_rows][5]; // Array to store user input
        // Taking user input
        for (int i = 0; i < no_of_rows; i++) {</pre>
            System.out.println("Enter the Details for User - " + (i + 1));
            for (int j = 0; j < 5; j++) {
                 System.out.print("Enter the " + attribute[j] + " :- ");
                 data[i][j] = scanner.nextLine();
            }
System.out.println("
        }
        // Construct SQL INSERT query
        StringBuilder insertQuery = new StringBuilder("INSERT INTO `student`(`username`, `email`,
`enrollment`, `department`, `password`) VALUES ");
        for (int i = 0; i < no of rows; i++) {
            insertQuery.append("('")
                     .append(data[i][0]).append("', '") // Username
                     .append(data[i][0]).append("', '") // Email
.append(data[i][0]).append("', '") // Enrollment
.append(data[i][0]).append("', '") // Department
                     .append(data[i][4]).append("')"); // Password
            if (i < no_of_rows - 1) {</pre>
                 insertQuery.append(", "); // Append a comma for multiple inserts
        }
```



}



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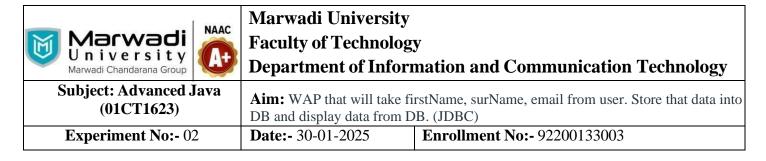
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```
insertQuery.append(";");
        // Execute the query
        try {
            statement.executeUpdate(insertQuery.toString());
            System.out.println("Data Inserted Successfully!\n");
            Display(statement); // Display the table contents after insertion
        } catch (SQLException e) {
            System.out.println("Error executing query: " + e.getMessage());
    }
    public static void Display(Statement statement) throws SQLException {
        String fetch_query = "SELECT * FROM student";
        ResultSet resultSet = statement.executeQuery(fetch_query);
        System.out.println("\n---- Student Table Data ----");
        while (resultSet.next()) {
            System.out.println("Username: " + resultSet.getString("username"));
            System.out.println("Email: " + resultSet.getString("email"));
            System.out.println("Enrollment: " + resultSet.getString("enrollment"));
            System.out.println("Department: " + resultSet.getString("department"));
            System.out.println("Password: " + resultSet.getString("password"));
            System.out.println("-----");
        }
    }
    public static void main(String[] args) {
        try {
            // Load MySOL JDBC Driver
            Class.forName("com.mysql.jdbc.Driver");
            // Establish Connection
            Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/aj_practical", "root", "");
            Statement statement = connection.createStatement();
            // Call Insert function
            Insert(statement);
            // Close resources
            statement.close();
            connection.close();
        } catch (ClassNotFoundException | SQLException e) {
            throw new RuntimeException(e);
        }
    }
```



Output:-

←T	→		∇	username	email	enrollment	department	password
		≩ Copy	Delete	Rajni	rajni@gmail.com	123	ICT	99999
		≩ Copy	Delete	Prashant Sarvaiya	prashant@gmail.com	92200133003	ICT	123456
		≩ Copy	Delete	Utsav Savaliya	utsav@gmail.com	92200142001	CE	101010
		≩ Copy	Delete	Neel Raiyani	neel@gmail.com	92310133019	ICT	555555