Practical 01 : JDBC Connectivity

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class JdbcExample {
    public static void main(String[] args) {
        // Database credentials
        String url = "jdbc:mysql://localhost:3306/ajp"; // Replace ajp 'yourDatabase' with your database name
        String username = "root";                    // Replace 'yourUsername' with your username
        String password = "root";                    // Replace 'yourPassword' with your password

        // JDBC variables
        Connection connection = null;
        Statement statement = null;

        try {
            // 1. Load JDBC driver (optional for newer versions)
            Class.forName("com.mysql.cj.jdbc.Driver");

            // 2. Establish a connection
```

```
        connection = DriverManager.getConnection(url, username, password);
        System.out.println("Connected to the database!");

        // 3. Create a statement
        statement = connection.createStatement();

        // 4. Execute a query
        String sql = "SELECT * FROM yourTable"; // Replace 'yourTable' with your table name
        ResultSet resultSet = statement.executeQuery(sql);

        // 5. Process the result set
        System.out.println("Data from the table:");
        while (resultSet.next()) {
            int id = resultSet.getInt("id");             // Replace 'id' with your column name
            String name = resultSet.getString("name");     // Replace 'name' with your column name
            String email = resultSet.getString("email");   // Replace 'email' with your column name
            System.out.println("ID: " + id + ", Name: " + name + ", Email: " + email);
        }

        // Close the result set
        resultSet.close();
```

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        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            try {
                // 6. Close resources
                if (statement != null) statement.close();
                if (connection != null) connection.close();
                System.out.println("Connection closed!");
            } catch (Exception ex) {
                ex.printStackTrace();
            }
        }
    }
}
```