



Question 1

How to run a java JDBC file:

[How to run JDBC file on Linux](#)

Write a JDBC program to process a bank transaction.

```
/*import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement; */
import java.sql.*;
import java.io.DataInputStream;

public class BankTransaction {

    public static void main(String[] args) throws ClassNotFoundException {
        // Database connection details
        // Load and register the MySQL JDBC driver
        Class.forName("com.mysql.cj.jdbc.Driver");

        String jdbcUrl = "jdbc:mysql://localhost:3307/bank_db"; // Replace with your database URL
        String username = "root"; // Replace with your database username
        String password = ""; // Replace with your database password
        int flag = 0;

        try {
            // Establish a database connection
            Connection connection = DriverManager.getConnection(jdbcUrl, username, password);

            // Create a SQL statement
            Statement statement = connection.createStatement();

            System.out.println("Enter the account number");
            DataInputStream din= new DataInputStream(System.in);
            int accno= Integer.parseInt(din.readLine());
            // Define the SQL query to fetch all data from the "user" table
            String sqlQuery = "SELECT * FROM accountdetails where account_num="+accno;

            // Execute the query and get the result set
            ResultSet resultSet = statement.executeQuery(sqlQuery);

            // Iterate through the result set and print the data
```

```

        while (resultSet.next()) {
            int userId = resultSet.getInt("account_num");
            String userName = resultSet.getString("name");
            String balance = resultSet.getString("balance");
            // Add more columns as needed
            System.out.println("User ID: " + userId);
            System.out.println("User Name: " + userName);
            System.out.println("Balance: " + balance);
            // Print additional columns here
            System.out.println();
            flag = 1;
        }

        if (flag == 0) {
            System.out.println("No Record Found");
        }
        // Close JDBC objects
        resultSet.close();
        statement.close();
        connection.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
}
}

```

Table in DB:

account_num	name	balance
1	Oliver Queen	50000000
2	Barry Allen	500000

TABLE NAME: *accountdetails*

Output:

```

Enter the account number
2
User ID: 2
User Name: Barry Allen
Balance: 500000.0

```
