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package myjdbc;

import java.sql.Connection; import java.sql.DriverManager; import java.sql.PreparedStatement; import
java.sql.ResultSet; import java.sql.Savepoint; import java.util.Scanner;

public class BankApp { public static void main(String[] args) { Connection con=null; String
url="jdbc:mysql://localhost:3306/tapbank"; String un = "root"; String pwd = "root"; try
{ Class.forName("com.mysql.cj.jdbc.Driver"); con = DriverManager.getConnection(url,un,pwd); Scanner scan=new
Scanner(System.in);

// Login Module System.out.println("Welcome to TabBank---->"); System.out.println("Enter Account Number"); int
acc_num = scan.nextInt(); System.out.println("enter pin"); int pin=scan.nextInt();

    PreparedStatement pstmt1 = con.prepareStatement("select * from account where acc_num=? and pin=?");
    pstmt1.setInt(1,acc_num);
    pstmt1.setInt(2, pin);
    ResultSet res1=pstmt1.executeQuery();
    res1.next();
    String name = res1.getString(2);
    int balance = res1.getInt(4);
    System.out.println("Welcome "+name);
    System.out.println("Avalible balance is "+ balance);

// Transfer Module System.out.println("Transfer Details"); System.out.println("Enter the beneficiary account
number"); int bacc_num=scan.nextInt(); System.out.println("Enter the transfer amount"); int
t_amount=scan.nextInt();

    con.setAutoCommit(false);
    Savepoint s = con.setSavepoint();

    PreparedStatement pstmt2 = con.prepareStatement("update account set balance = balance - ?" + " where
acc_num = ?");
    pstmt2.setInt(1, t_amount);
    pstmt2.setInt(2, acc_num);
    pstmt2.executeUpdate();

    System.out.println("Incoming Credit Request----->");
    System.out.println(name + "account no" + acc_num + "wants to transfer"+t_amount);
    System.out.println("press Y to receive");
    System.out.println("press N to reject");
    String choice=scan.next();
    if ( choice.equals("Y")) {
        PreparedStatement pstmt3 = con.prepareStatement("update account set balance = balance + ? where
acc_num = ?");
        pstmt3.setInt(1, t_amount);
        pstmt3.setInt(2,bacc_num);
        pstmt3.executeUpdate();
    }
}
}

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        PreparedStatement pstmt4 = con.prepareStatement("select * from account" + " where acc_num=?");
        pstmt4.setInt(1, bacc_num);
        ResultSet res2 = pstmt4.executeQuery();

        res2.next();

        System.out.println("updated balance is: "+res2.getInt(4));
    } else {

        con.rollback(s);
        PreparedStatement pstmt5 = con.prepareStatement("select * from account where acc_num=?");
        pstmt5.setInt(1, bacc_num);
        ResultSet res2 = pstmt5.executeQuery();

        res2.next();
        System.out.println("Existing balance is: "+res2.getInt(4));

    }

    con.commit();

} catch (Exception e) {
    e.printStackTrace();
}

}

}

```