PART B

2)Write a menu driven JDBC program to perform basic operations with Bank Table.

MENU

- 1. Add new Account Holder information.
- 2. Amount Deposit
- 3. Amount Withdrawal (Maintain minimum balance 500 Rs)
- 4. Display all information
- 5. Exit

Bank

ACC_NO	ACC_NAME	ACC_ADDRESS	BALANCE

BankInfo.java

package bankinfo;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.Scanner;

import java.util.logging.Level;

import java.util.logging.Logger;

```
public class BankInfo
{
public static void main(String[] args) {
    try {
      Scanner in=new Scanner(System.in);
      int choice=5;
      int acc_no;
      float bal;
      String name, address, sql;
       Class.forName("org.apache.derby.jdbc.ClientDriver");
Connection
con=DriverManager.getConnection("jdbc:derby://localhost:1527/Ba
nk", "mani", "abcd1234");
Statement stmt=con.createStatement();
ResultSet rs;
       do{
        System.out.println("Transaction Menu");
        System.out.println("-----");
        System.out.println("1.Add Account");
        System.out.println("2.Deposit");
        System.out.println("3.Withdraw");
        System.out.println("4.Display");
        System.out.println("5.Exit");
        System.out.println("-----");
```

```
System.out.print("Enter your choice: ");
        choice=in.nextInt();
        switch(choice){
           case 1:
            System.out.print("Enter the Account Number: ");
             acc no=in.nextInt();
             in.nextLine();
             System.out.print("Enter the Account holder name: ");
             name=in.nextLine();
             System.out.print("Enter the address: ");
             address=in.nextLine();
             System.out.print("Enter the Initial amount: ");
             bal=in.nextFloat();
sql="INSERT INTO BNKTABLE (ACC NO, ACC NAME, ACC ADDRESS,
BALANCE)VALUES ("+acc_no+", '"+name+"', '"+address+"', "+bal+")";
            int result= stmt.executeUpdate(sql);
            if(result==1){
            System.out.println("Account details are saved");
            }else
        {
           System.out.println("Error! While saving Account details");
            }
         break;
```

```
case 2:
           System.out.print("Enter the Account Number: ");
             acc no=in.nextInt();
sql="SELECT COUNT(*) FROM BNKTABLE WHERE ACC_NO="+acc_no;
             rs=stmt.executeQuery(sql);
             rs.next();
             if(rs.getInt(1)==1){
             System.out.print("Enter the amount to be deposit: ");
             bal=in.nextFloat();
             if(bal <= 0)
             System.out.println("Enter the proper amount"); break;
             }
sql="UPDATE BNKTABLE SET BALANCE=BALANCE +"+bal+" WHERE
ACC NO="+acc no;
          if(stmt.executeUpdate(sql)==1){
           System.out.println("Amount deposited successfully");
             }
              else
              {
          System.out.println("Error! While depositing the amount");
              }
             }
             else{
             System.out.println("Account number not found");
```

```
}
             break;
          case 3:
             System.out.print("Enter the Account Number: ");
            acc no=in.nextInt();
sql="SELECT COUNT(*) FROM BNKTABLE WHERE ACC NO="+acc no;
            rs=stmt.executeQuery(sql);
            rs.next();
            if(rs.getInt(1)==1){
           System.out.print("Enter the amount to be withdrawn: ");
            float w=in.nextFloat();
            if(w \le 0)
            System.out.println("Enter the proper amount");
            break;
            }
     sql="UPDATE BNKTABLE SET BALANCE=BALANCE-"+w+" WHERE
ACC_NO="+acc_no+"and BALANCE-"+w+">=500";
         int res= stmt.executeUpdate(sql);
            if(res==1){
         System.out.println("Amount debited successfully");
            }else{
 System.out.println("Cannot withdraw the amount-LOW
BALANCE!!"):
            }
            }
```

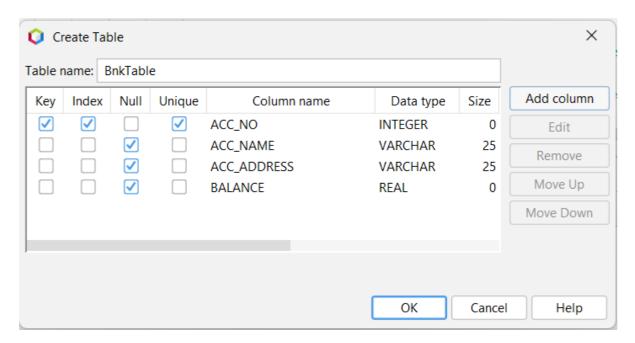
```
else{
             System.out.println("Account number not found");
            }
           break;
          case 4:
 ResultSet res=stmt.executeQuery("SELECT * FROM BNKTABLE");
System.out.println("\n\nAcc no\t\t Name\t\t Address\tBalance ");
System.out.println(" -----");
            while(res.next()){
              System.out.print((int) res.getInt(1) + "\t\t");
              System.out.print(res.getString(2) + "\t\t");
              System.out.print(res.getString(3) + "\t\t");
            System.out.print((float) res.getFloat(4) + "\t\t");
               System.out.print("\n");
            }
            break;
          case 5:
            stmt.close();
            con.close();
            System.out.println("thank you");
            return;
          default:
```

```
System.out.println("Wrong choice ......\nTry Again!");
}

}while(true);
} catch (ClassNotFoundException ex) {

Logger.getLogger(BankInfo.class.getName()).log(Level.SEVERE, null, ex);
}

}
```



Output:

Transaction Menu

- 1.Add Account
- 2.Deposit
- 3.Withdraw
- 4.Display
- 5.Exit

Enter your choice: 1

Enter the Account Number: 10002 Enter the Account holder name: Bhavya

Enter the address: Udupi Enter the Initial amount: 1000 Account details are saved

Transaction Menu

- 1.Add Account
- 2.Deposit
- 3.Withdraw
- 4.Display
- 5.Exit

Enter your choice: 4

Acc_no	Name	Address	Balance
1000 Nidl	ya Bai	ndapura	4000.0
10001 Kav		nglore	1000.0
10002 Bha		Udupi	1000.0

Transaction Menu

- 1.Add Account
- 2.Deposit
- 3.Withdraw
- 4.Display
- 5.Exit

Enter your choice: 2

Enter the Account Number: 10002 Enter the amount to be deposit: 2000 Amount deposited successfully

Transaction Menu

- 1.Add Account
- 2.Deposit
- 3.Withdraw
- 4.Display
- 5.Exit

Enter your choice: 4

Acc_no	Name	Address	Balance
1000 10001 10002 Transaction M	Nidhi Kavya Bhavya Ienu	Kundapura Banglore Udupi	4000.0 1000.0 3000.0

- 1.Add Account
- 2.Deposit
- 3.Withdraw
- 4.Display
- 5.Exit

Enter your choice: 3

Enter the Account Number: 10002 Enter the amount to be withdrawn: 2000

Amount debited successfully

Transaction Menu

- 1.Add Account
- 2.Deposit
- 3.Withdraw
- 4.Display
- 5.Exit

Enter your choice: 4

Acc_no		Name	Address	Balance	
1000 Nidhi Kundapura 4000.0 10001 Kavya Banglore 1000.0 10002 Bhavya Udupi 1000.0 Transaction Menu					
1.Add Account 2.Deposit 3.Withdraw 4.Display 5.Exit					

Enter your choice: 5

thank you