LAB-5

Develop a Java Program to create a class Bank that maintains two kinds of account for its customer, one called saving account, ...

```java
#import java.util.Scanner;

class Account {
    String customerName;
    String accountNumber;
    String accountType;
    double balance;

    Account (String customerName, String accountNumber,
             String accountType, double balance)
    {
        this.customerName = customerName;
        this.accountNumber = accountNumber;
        this.accountType = accountType;
        this.balance = balance;
    }
    void deposit (double amount)
    {
        balance += amount;
        System.out.println(" Deposit successful.
Updated balance: " + balance);
    }


    void displayBalance()
    {
        System.out.println(" Account Type: " + accountType);
        System.out.println(" Customer Name: " + customerName);
        System.out.println(" Account Number: " + accountNumber);
        System.out.println(" Balance:" + balance);
```

```java
class SavAcct extends Account {
    SavAcct (String customerName, String accountNumber,
    double balance)
    {
    super (customer


void withdrawal()
{
    System.out.println ("Enter withdrawal amount");
    int with= sc.nextInt();
    if (with > balance)
    {
        System.out.println ("Insufficient balance");
    }
    else {
        balance -= with; }
}

void applyInterest()
{

package java_lab;
public class Cur-acct extends Account {
    Cur-acct ( String CustomerName, int accountNumber,
    String account type)
    {
        super (customer Name, Account Number, Account type);
    }

void withdrawal()
{
    System.out.println (' Enter withdrawal amt ');
    int with = sc.nextInt()
    if (balance <= 2000)
    {

        double pen= balance/(6.06);
        System.out.println (' Insufficient balance penalty to be paid i
```

```
        balance +. pen;
    else {
        balance = with;
    }
}
};

package java_lab;
public class Sav_account extends Account {
    Sav_acct (String CustomeName, AccountNum, accounttype)
    {
        super (Customer Name, Account Number, account type);
    }
    void applyInterest ()
    {
        System. out.printlln ("Enter interest rate");
        int rate = sc.nextInt();
        double interest = balance * (rate/100);
        balance +. interest;
        System. out. printh ("Balance after interest : " + balance);
    }
}

package java_lab;
import java.util.Scanner;
public class Book
{
    public static void main (String args[])
    {
        Scanner sc = new Scanner (System.in);
        System. out.printh ("Enter customer name");
        String CustomerName = sc.nextLine();
        System. out. printh ("Enter account number");
        int acctNum = sc.nextLine();
        System. out.printh ("
        Account Ca = new
        Cur_acct (Customer Name, Account Num, current account);
```

```
Account sa = new
sav.acct (Customer Name, account number, "Savingaccount");
int choice;
while (true)
{
System.out.println (" 1. Deposit \n 2. Withdrawal \n
    3. Compute Interest \n4. Display );
    choice. Sc. nextInt();
    switch (choice)
    {
    case 1:
        System.out.println (" Enter the type of account.
                \n 1. Savings \n 2. Current");
        int acc. sc.nextInt();
        if (acc == 1)
        {
            sa. deposit();
        }
        else {
            ca. deposit();
        }
        break;
    Case 2:
        System.out.println (" Enter type of account);
            int acc. sc. nextInt(),
        if (acc = 1)
        {
            so. withdrawal();
        }
        else
        {
            ca. withdrawal();
        }
        break;
```

```java
case 3:
    sa. applyInterest();
    break;
case 4:
    System. out. printh (" 1. Savings \n 2. Current);
    int acc2 = sc.nextInt()
    if (acc2 == 1)
    {
        sa. display ();
    }
    else
    {
        ca. display();
    }
    break;
    }
    }
    }
```

9/1/24

Output:

Enter Customer Name: Sindhuja	Enter amount: 2000
Enter Acc No : 12345	Balance amt: 3000
Ø. -Menue -	- Menue -
1. Deposit	1. Deposit
2. Withdraw	2. Withdraw
3. Compute interest	3. Compute interest
4. Display	4. Display
1	4 .
Enter 1. Savings 2 Current	1. Savings 2. Current
1	1.
Enter amount 5000	Customer name: Sindhuja
Enter your choice	Acc No : 12345
2	Balance: 3000
Enter 1. Savings 2. Current	
1	