Lab -5

```java
import java.util.*;
class Bank
{
    String name;
    int accno;
    boolean current;
    Scanner Sc = new Scanner (System.in);
    Bank()
    {
        if (-true. get Class () == CurrentAcc. class)
        {
            current = true;
        }
        else
        {
            current = false;
        }
        System.out.println ( "Enter deposit amount");
        name = Sc.next();
        System.out.println ("Enter account no. ");
        accno = Sc.nextInt();
    }

    void deposit ()
    {
        System.out.print ("Enter deposit amount");
        balance += Sc.nextInt();
    }
    void withdraw ()
    {
        System.out.print ("Enter deposit amount") ;
        double withdraw = Sc.nextDouble();
        while (withdraw > balance)
        {
            System.out.println ("Insufficient Balance");
            withdraw = Sc.nextDouble();
        }
```

```java
        balance -= withdraw;
        if (current && balance < min_balance)
        {
            System.out.println("Below min balance of 100, remaining money
            in account");
            balance = 0;
        }
    }

    void withdraw (double withdraw)
    {
        if (withdraw > balance)
        {
            System.out.println("Withdraw amount greater than balance");
        }
        if (current && balance < min_balance)
        {
            System.out.println("Below min balance of 100, remove money");
            balance = 0;
        }
    }

    void showBalance() {
        System.out.print("balance = " + balance);
    }
}

class CurrentAcc extends Account {
    void cheque() {
        System.out.print("Enter cheque amount:");
        double cheque = sc.nextDouble();
        withdraw(cheque);
        System.out.println("Cheque vrested");
    }
}
```

```java
class SavingsAcc extends Account {
    void compound (int t, int r)
    {
        balance = balance + (Math.pow ((1 + ((double) r/100)), t));
        System.out.print ("Balance after given rate and time" + balance);
    }

class Bank {
    public static void main (String args[])
    {
        SavingsAcc john = new SavingsAcc();
        CurrentAcc smith = new CurrentAcc();
        Account ref = null;
        if (acc == 1)
        {
            ref = & john;
        }
        else
        {
            ref = smith;
        }
        while (choice != 6) {
            if (choice == 1) {
                ref.deposit ();
            else if (choice == 2)
                ref.withdraw ();
            else if (choice == 3) {
                if (acc == 1)
                {
                    john.compound (1,5);
                else if (choice == 4)
                    ref.show Balance ();
            }
            System.out.println (" Enter acc no ");
            acc = sc.nextInt ();
            choice = sc.nextInt ();
```

Output -
  Enter name : john
  Enter acc no : 1

  Enter name : Smith
  Enter acc_no : 2

Choice :1) Deposit
        2) Withdraw
        3) Compute interest
        4) Display account
        5) Create Cheque
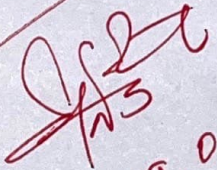   6) Exit

  1 5
  Enter cheque amount
    5000

  Cheque created