Lab 5 :

```
import java.util.Scanner;
class Bank
{
   String savings, current;
}
class Account extends Bank
{
  double balance = 10,000;
  String customer_name;
   long account_number;
   Scanner input = new Scanner(System.in);
    void get_details()
    {
      System.out.println("Enter the name");
      customer_name = input.next();
      System.out.println("Enter the account number");
      account_number = input.nextLong();
    }
}
```

```
class Curr_acct extends Account
{
    double deposit_amount=0;
    double minimum_balance=1000;
    double withdrawal_amount=0;
    void deposit()
    {
    System.out.println("Enter the balance to be
                                deposited");
     deposit_amount = input.nextDouble();
      balance += deposit_amount;
      System.out.println("Your balance amount is Rs. :
                                +balance);
    }
    void withdrawal()
    {
    System.out.println("Enter the withdrawal amount");
    withdrawal_amount =input.nextDouble();
   if (withdrawal_amount >balance)
   { System.out.println("Your balance is less than your withdrawal
                                amount");
```

```
else
 {
  balance = balance - withdrawal_amount;
  System.out.println("Your balance is :" + balance);
  if ( balance < minimum_balance)
  {
     balance = balance -100;
     System.out.println("You lost Rs.100 due to the
                         insufficient minimum balance");
     System.out.println("Now your balance is :"
                                    +balance);
  }
 }
}

}

class Sav_acct extends Account
 {
    double deposit_amount =0;
    double years =3;
    double rate_of_interest = 5;
    double withdrawal_amount;
```

```
void deposit()
{
  System.out.println("Enter the balance to be deposited");
  deposit_amount = input.nextDouble();
  balance += deposit_amount;
  System.out.println("Your balance is :"+balance);
}
void withdrawal()
  {
  System.out.println("Enter the withdrawal amount");
  withdrawal_amount = input.nextDouble();
  if(withdrawal_amount > balance)
  {
    System.out.println("Your balance is less than
                        your withdrawal amount");
  }
  else
  {
    balance = balance - withdrawal_amount;
    System.out.println("Your balance is :"+balance);
  }
```

```
    }
}void interest()
    {
    double interest_amount;
    interest_amount = balance *(Math.pow(1+(rate_of_interest*
                                    *0.01)),(years))-1);
    System.out.println("Your amount you gained in
                        interest is :"+interest_amount);
    balance += interest_amount;
    System.out.println("Your total balance is :"+balance);
    }
}

class Accountmain
{
    public static void main(String args[])
    {
        Scanner input = new Scanner(System.in);
        Account a = new Account();
        a.getdetails();
```

```
int type_of_account;
System.out.println("Enter the type of account
                    1. Current account 2. Savings account");
type_of_account =input.nextInt();
if(type_of_account==1)
{
    Curr_acct b = new Curr_acct();
    int n;
    Loop:for(;;)
    {
    System.out.println("Enter your choice");
    System.out.println("1.deposit 2.withdraw 3.Done");
     n = input.nextInt();
    switch(n)
     {
       case 1:{
            b.deposit();
            break;
        }
```

```
case 2 : {
        b. withdrawal ( );
        break;
    }
  case 3 : {
        break Loop;
    }
  }
 }
}
if (type_of_account == 2)
 {
   Sav_acct  c = new Sav_acct( );
   int n;
   Loop : for(;;)
   {
   System. out. println ("1. deposit 2. withdraw 3. Done");
    n = input. nextInt( );
   switch(n)
   {
```

```
case 1 : {
        c. deposit ( );
        break;
        }
case   2 : {
          c. interest ( );
          c. withdrawal ( );
          break;
        }
      case 3 :
        {
            break Loop;
        }
      }
    }
  }
}
```