```
1) Abstract Class named Shape
```

```
abstract class shape {
     int a= 3, b=4;
     abstract public void print-area ();
  class rectangle extends Shape {
     public int area - rect;
          @ overide
     Pubic void print - area () {
          area_ react = axb;
           System. out. print In "The area of rectangle
                                1's : " + wrea - rect );
      j
 Class triangle extends
       int onea tri;
         @ overside
```

1) sous-tring bion silder

orea_trà = (int) (0.5 * a * b); System. out. prindlu ("The one of triangle is: "+ one ofti);

3

```
class circle extends Shape
   int over-circle;
      Q averide
    public static void print-areal)
         orrea-ciricle = (int) (3.14 * a * a);
          System. out. println ("The over of circle
                                is: "+ area-chile).
Class abs {
      public static void main ( String [] engr) [
                rectangle rec = new rectangle ();
                 rec. print-area ();
                 () sprairet won = ivet sprairet
                 ( ) som - buint . int
                  circle cir = new circle ();
                  cir . print_area (1;
```

LAB-4

de Class BANK for two acc. Saving & current

import java. util. scanner; class account & &

private String name;

private long account-number;

private int account - type:

double balance;

void set_data() & {

Scaune Sc. = New Scanner (Systemin);

System out printly "Enter Acc. holder name)"

Name = Sc. next ();

System. out. paintlu ("Enter the acc. no.");

account - number = 85. next long ();

System. out. printly (" Easter the Choose

the account type: In1.

Saving ace In 2. Conventain

account_type = ss. next Int();

void get-date () {

System: aut. printlu!" Acc. holder: "tham!

System out. printly ("Acc no.: "+ account. numba);

1

```
return account-type () {
return account-type;
 Saving extends account
Scanner ss = new Scanner ( System. in);
double amount;
 void get-sav-balance ()
       Systeman print lu ("Enter the Aut. to be
                       placed in you saving Acc. 1);
        amount = SS. Next Double ();
        balance += amount;
    display - sav abolance ()
     System. aut. printly "balance = " + balanchis
void Compute - sav - interest ()
       8 ystem out println (" ) u *** Calculating
                            Compand Interest ***
       System. out. printly "Enter annual interest or onle"."
```

```
float rate = ss. nextfloat();
 System. out. printly ("Enter time in years: ");
 float time = ss. nextfloat ();
  System out printly " Enter principal: "1;
        principle = ss. nextflood (1)
 Flort CI = (floot) ((principle * (Math. pow
                         ((1+ state 1 (12*100)), (12* time)
                           ))) - principle);
   System. out. printle (" The Compount Interest is:
    balance = balance + CI;
   System. out. println ("Balance efter adding
                            Interest: "+ balance);
void withdrawl_sav ()
  8 ystom. out. printly ("Enter the amount to!
                             be withdrawn ");
     amount = = ss. next Double ();
     balance = balance - amount;
```

```
Class Coverent extends account
    Scanner 88 = new & cannor ( systemin);
     double amount;
      final double min-balance = 500;
       void get con-bolance ()
          System. out. println ("Enter the amount
                               to be placed in you
                              current account ");
             account = ss. next Double ();
            balance + = amount ,
    void display - cur-blace ()
        System. out. printlu ("Bolance = "+boland
        Void compute - con - & envice - charges ()
              if (bolance & min-bolance)
             E System. out printlul" Service tex of
                                  ns. 100 shall be
                                        levied");
                    balance = balance - 100;
```

```
else
           Egsten aut printly "Minimum balance
                                    is maintained ");
        1
void
        withdrawl-curl) {
          System. out. printer ("Enter the amount to
                                 be with drawn "1;
          amount = ss. next Double ();
          balance = balance - amount ;
P
      Bank {
Class
       public Static void main ( String angs [])
             Scanna ss = new Scanna (Systemin);
             int type;
            System. out. printle ("Enter the bank
                                     details ");
             account acc = new account ();
             acc. gset-data();
             type = ace. return - account - type ();
            if ( type = = 1)
                    System. out. printly " SAVINGS
                                             Accounts");
                     acc - get - data ();
```

```
Saving sou = new saving ();
 son. get - son-bolance (1;
 son. get sav display - son-balance ();
System out printful "Do you want to Calarlate
                       Interest on not in
 Had the spends
                     If you press I she o'll
  int ch = 85. next Zut();
  if (ch = = 1)
     sav.compute_sav_interest();
       s au . display - sav - desplay balance ();
       son. with drawl_sav(1;
        Sav. display-sav- bluce (1;
  if (type = = 2)
     E system. out print In (" Current Account")
        acc. get - data (1;
        convent on = new convent();
         em. get-cm-balance ();
         cm. display-cur-bluce (1;
          cur compute - cur services - charges ();
          eur. display-eur-bluce();
          en . withdrawl _ con c1;
          en display - em - balance (1;
```