```
Program 5
        java. util. Scanner;
 import java-lang. Math.
clas Account
                     slim out burden Ealance is than
   Itning cus_name;
   String acc-no;
   String accitype;
 y double bealance;
                               wetern out huntled Falance
       curracc entends Account
  System. out. printto l'Enler the customer name";
   cus_name = in nent dine();
  System.out.println (" lenter the account number");
   acc-no = in.nent dine();
   Tystem.ord-println ("Enter the balance");
   balance = in nevil Double();
                                   in a minimal of sublet
                                   oalance = balance + ormits
void min()
& Syslem. out-println (" Enter the eustomer name ";")",
    cus_name = in-nentaine () 3
  System out furth ly Enter the account number :");
    acc-no = in rent dinel);
  System. out. println ("Enter the lealance",");
    balance = in.nento Oouble();
   woid main ()
   System. out. printer l'Enler the minimum balance to be
      min_bal = in. nent Doublec);
```

```
System. out. print m l'Enter the service charge to be imposed

(in%) if minimum balance & not fresent: ");

Sez-charge = in nent Doublel);
  if Chalance < min-bal)
        System. out. println ("Balance less than min_bal and service
                charge iemposed:");
       balance = balance - (Ser_charge + 0.01 + balance);
       System. out frentln ("Balance after service charge is imposed: "+ lealance);
                                      as name = imment xincels
  void deposit ()
  I double ant;
     System out println la Enter the amount to be deposited: ");
      amt = in.nentDouble();
    balance = balance + amt;
  void withdraw ()
d' double amt;
 System.out. print m ("Enler the amount to be withdrawn:").
   amt = in. nent Double ();
     if (balance >= amt)
        balance = balance - amt;
        Tystem. out print n la Balance after with drawl: "+ balance);
```

```
else
   System ont printin ("Amount cannot be withdrawn");
 void dis ()
  System. out. printh (a Balance: "t balance);
class Savace entends Account
   Scanner in = new Scanner (System in),
  Sav-ace()
 System. out. puntin (" Enter the customer name:");
cus_name = in-nent direc);
   System. out println ("Enter the account number:");
     ace_no = in.nextdine();
   Systemoort printh ("Enter the balance:");
    balance = in. nent Double ();
 void completes
L' doube cpint;
    System.out. println ("Enter the rate (%) of compound intest;");
    int s= in. nentInt();
    Systemout printin ("Enlir m=12 if compounded monthly m=1 if
                     compounded yearly:");
     int m = in. nentInt();
```

```
System.out. println l'Enter the time elapsed in year
int t = in-next Int()
Cpint = Math. pow(C1+(Cx+0.01/m)),t);
 balance = balance*cpint;
System. out print la Balance after computing compaind inhest:
                    +balance);
void deposit ()
double amt;
                               amount to be deposited: ");
  Systemout println ("Enter The amt = in nent Double();
balance = balance + amt;
                               som out puntly (" buter the
  void withdraw ()
                               can out pointly (" Into the
 double amt;
 System.out.println("Enter the amount to be withdrawn:");
  amt = in-nextDouble();
  of (balance) = amt)
 2 balance = balance - amt;
    System.out.printm ("Balance after withdrawl: "+ balance);
                                         ystem out puntle
  else
System. out printin (" Amount cannot be withdrawn");
```

```
void dis ()
  System.ont. printinta Balance: "+ balance);
class Bank
& public Statie void main (String angs 1)
 Scanner in - new Scanner Chystem in);
  System.out. printh (" Encorthe type of account you want to opt 1: CURRENT AMOUNT 2: SAVINGS ACCOUNT:");
   int type = in next Intls;
  if (type == 1)
                              int on = moreutint();
  & currace a1 = new currace();
    while Clove)
  System. out print la Enter any ophion 10"+"1: DEPOSITION
          t"2: DISPLAYIN "+ "3: WITHORAWIN"+ 114;
          SERVICE CHARGEINN);
                                  weak's
    ina ch = in-nextInti); () workstone 200 3 2 mg
    Switch (ch)
       case 1: as. deposite);
                  break,
        case 2: a1. disc);
                  break;
         ease 3: a1. withdraw();
                  break,
         case 4 % azimin();
                   break;
          default : Lystem.out.println (" Ender valid option");
                    System. exit (0);
```

```
else.
  Sau au az = new sav-accl);
 while come )
 System-out-println (" Enler any option \n"+"1: DEPOSIT"+"
             2: DISPLAYIN 1+ 43: WITHDRAWIN 4+4
             4: compound intrest in";
  int ch = in. next Int ();
                willace at = min curincell!
 Switch (ch)
    case 1: a2. deposit ();
             break 5
    case 2 ° a2 · dis();
             break;
    can 3 : a2. withdraw();
             break 5
    case +: a2. cmpInt();
             break,
   défault: System voul print la C" Entervalid option").
            System. exit(0);
```