Lab - Program - 5 :-

```
* import java.util.Scanner;
  abstract class Account
  {
     String cust_name;
     long acc_no;
     String acc_type;
     double balance;
     double min_bal = 1000.0;
  Account (String cust_name, long no, String acc_type,
           double balance)
  {
     this.cust_name = cust_name;
     this.acc_no = acc_no;
     this.acc_type = acc_type;
     this.balance = balance;
  }
  abstract void deposit (double amount);
  abstract void display();
  abstract void withdrawal (double amount);
  }
```

```
class curr_acct extends Account
{
  double Penalty = 100.0;
  curr_acct (string cust_name, long acc_no,
             string acc_type, double balance)
{
  super (cust_name, acc_no, acc_type, balance);
  system.out.Println("Name of the customer:"
                     +cust_name);
  system.out.Println("Account Number:"+acc_no);
  system.out.Println("Account type:"+acc_type);
  system.out.Println("Balance:"+balance);
}
  void deposit (double amount)
  {
    this.balance = this.balance +amount;
  }
  void display ()
  {
    system.out.Println("Balance is:"+this.balance);
  }
```

```
void withdrawl(double amount)
{
  this.balance = this.balance - amount;
   imposPenalty();
}

 void imposPenalty()
{
   if (this.balance < min_bal)
   {
    this.balance = this.balance - Penalty;
   }
}

}

class Sav-acct extends ~~Acco~~.Account
{
  Sav_acct (String cust_name, long acc_no,
              String acc_type, double balance)
  {
    super (cust_name, acc_no, acc_type, balance);
    System.out.Println("Name of the Customer:"
                                  + cust_name);
    system.out.Println ("Account Number:"
                                  + acc_no);
```

```
system.out.Println("Account type :"+acc_type);
system.out.Println("Balance :"+balance);
}
void deposit(double amount)
{
  this.balance = this.balance + amount;
    interest();
}
  void interest()
  {
    int rate=10, time=1;
    float ci = (float)(this.balance * Math.Pow
                  (1+rate/100.0, time)-this.balance);
    this.balance = this.balance + ci;
  }
  void display()
  {
    system.out.Println("Balance is :"+this.balance);
  }
```

```
void withdrawal (double amount)
{
  this.balance = this.balance - amount;
}
class bank
{
  Public static void main (string [] args)
{
  Scanner ss = new Scanner (system.in);
  Double amount;
  int flag = 0;
  while (flag == 0)
{
  system.out.Println ("Enter the type of
  Account: \n 1: current account \n 2: Savings
                                    account");
  int choice = ss.nextInt();
  switch (choice)
{
  case 1: system.out.Println ("\n Current account:
                                    \n");
  Curr_acct c = new Curr_acct ("Rahul", 15 768912,
                    "current", 30000.00);
```

```
int flag1=0;
while(flag1==0)
{
~~System.out.Println("\n current account:\n");~~
system.out.Println("Enter your choice\n1:Deposit
amount\n2:Display Balance\n3:withdraw");
int choice1=ss.nextInt();
switch(choice1)
{
case 1:
system.out.Println("Enter amount to be
                    deposited:");
amount = ss.nextDouble();
c.deposit(amount);
break;
case 2:
c.display();
break;
case 3:
system.out.Println("Enter amount you want
                    to withdraw:");
amount=ss.nextDouble();
c.withdrawal(amount);
break;
default
flag1=1;
}
}
```

```
break;
case 2: System.out.Println("\n Saving's account
                                    \n");
Sav_acct s= new Sav_acct("vijay", 63632179,
                        "Savings", 6000.00);
int flag2=0;
while(flag2==0)
{
System.out.Println("Enter your choice
\n1:Deposit amount\n 2: DisplayBalance\n
 3: withdraw");
int choice2=ss.nextInt();
switch(choice2)
{
 case 1: System.out.Println("Enter the
          amount to be deposited:");
 amount= ss.nextDouble();
 s.deposit(amount);
  break;
 case 2:
  s.display();
  break;
```

```
case 3:
System.out.println("Enter the Amount you
                    want to withdraw:");
amount = ss.nextDouble();
break;
default:
flag2 = 1;
}
}
break;
default: flag = 1;
}
}
}
}
```