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Lab 5

```
import java.util.*;
class account {
 String customer_name;
 int account_number;
 String account_type;
}
class curr_acct extends account {
  Scanner x = new Scanner (system.in);
  double temp = 0.0;
  double amount = 0.0;
  double fine = 0.0;
  double minimum amount = 1000.0;

void get details() {
 customer_number = x.nextline();
 account_number = x.nextInt();
}
 void deposit() {
System.out.println("Enter the deposit amount:");
temp = x.next Double();
 amount += temp;
 }
 void show balance() {
 if (amount >= min_amount)
 {
 System.out.println("Balance is:" + amount);
 }
  else {
 fine = (amount * 1.0 * 10)/100;
   amount -= fine;
 System.out.println("the fine imposed:" + fine);
System.out.println("Balance is:" + amount);
}
}
```

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```
void withdrawal(){
System.out.println("Enter the withdrawal amount:");
temp = x.nextDouble();
amount -= temp;
}
}
class Sav_acct extends account {
Scanner x = new Scanner(System.in);
double temp = 0.0;
double amount = 0.0;
double internet = 0.0;
void get details(){
customer_name = x.nextLine();
account_number = x.nextInt();
}
void showbalance(){
System.out.println("Balance is: "+ amount);
}
void withdrawal(){
System.out.println("Enter the withdrawal amount:");
temp = x.nextDouble();
amount = temp;
}
void interest(){
interest = (amount * 1.0 * 3)/100;
amount += interest;
System.out.println("interest added:"+interest);
System.out.println("Balance is:"+ amount);
}
}
```

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```
public class Main {
public static void main(String[] args){
  int opt = 0;
  String type = null;
Scanner x = new Scanner(System.in);
System.out.println("Welcome to the bank service");
System.out.println("Enter the type of account
                    (curr_acct/sav_acct)");
type = x.nextline();
if (type equals("curr_acct")) {
   curr_acct a = new curr_acct();
System.out.println("Enter the customer_name,
                    account_number:");
  a.getdetails();
  while (true) {
System.out.println("press 1: Accept deposit and
                    update the balance");
System.out.println("press 2: Display the balance");
System.out.println("press 3: Withdrawal and
                    update the balance");
System.out.println("Enter option:");
opt = x.nextInt();
switch (opt) {
case 1: a.deposit();
        a.Showbalance();
        break;
case 2: a.showbalance();
        break;
case 3: a.withdrawal();
        a.Showbalance();
        break;
    }
  }
}
```

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```
if (type.equals("sav_acct")) {
  sav_acct a = new sav_acct();
System.out.println("Enter the customer_name,
                    account_number:");
a.getdetails();
while (true) {
System.out.println("press 1: Accept details and
                    update the balance");
System.out.println("press 2: Display the amount");
System.out.println("press 3: Compute and deposit
                    interest");
System.out.println("press 4: withdrawal and
                    update the balance");
System.out.println("Enter option:");
  opt = sc.nextline();
switch (opt) {

  case 1: a.deposit();
          a.showbalance();
          break;
  case 2; a.showbalance();
          break;
  case 3: a.interest();
          a.showbalance();
          break;
  case 4: a.withdrawal();
          a.showbalance();
          break;
    }
  }
 }
}
```