

Yashwanth Kiran. S
1BM19CS187

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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_name = x.nextLine();  
    account_number = x.nextInt();  
}  
void deposit () {  
    System.out.println("Enter the deposit amount:");  
    temp = x.nextDouble();  
    amount += temp;  
}  
void showbalance () {  
    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);  
    }  
}  
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 interest = 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: " + 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);
}
}
}

```



```
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;  
       }  
    }  
}  
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 = x.nextLine();
```

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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 ;

}
}
}
}
}