

## 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.nextDouble();
        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 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:");
```

```
        temp = x.nextDouble();  
        amount = temp;
```

```
    }
```

```
    void interest() {
```

```
        interest = (amount * 10 * 3) / 100;
```

```
        amount += interest;
```

```
        System.out.println("Interest added: " + interest);  
    }
```

```
    System.out.println("Balance is: " + amount);  
}
```

```
}
```



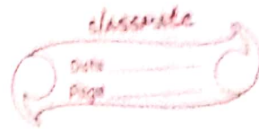
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```
public class Main {  
    public static void main(String[] args) {  
        int opt = 0;  
        String type = null;  
        Scanner x = new Scanner(System.in);  
        System.out.println("Welcome to the bank service");  
        System.out.println("Enter 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_acc")) {
    sav_acc a = new sav_acc();
    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: With drawal 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;
        }
    }
}
```