

3D section

OOT LAB  
DI- BATCH

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Lab program 5

```
import java.util.*;  
class Account  
{  
    String name, type;  
    int acc_no;  
    double amount;  
    Scanner in = new Scanner(System.in);  
    void type(int choice)  
    {  
        if (choice == 1)  
            type = "savings Account";  
        if (choice == 2)  
            type = "current Account";  
    }  
    void input()  
    {  
        System.out.println("Enter the name, Account number  
and Balance:");  
        name = in.next();  
        acc_no = in.nextInt();  
        amount = in.nextDouble();  
    }  
    void deposit()  
    {  
        System.out.println("Enter the amount to be deposited:");  
        double x = in.nextDouble();  
        amount = in.nextDouble() amount + x;  
    }  
}
```

```

    }
    void display()
    {
        System.out.println("Name:" + name);
        System.out.println("Account number:" + acc_no);
        System.out.println("Type:" + type);
        System.out.println("Balance:" + amount);
    }
}

class SavingsAcc extends Account
{
    double a, interest;
    int d, t;
    Scanner in = new Scanner(System.in);
    void withdrawal()
    {
        System.out.println("Enter amount to be withdrawn:");
        double amt_w = in.nextDouble();
        if (amt_w <= amount)
            amount = amount - amt_w;
        else
            System.out.println("Invalid amount");
    }
}

void comp_interest()
{
    System.out.println("Enter the rate and time:");
    d = in.nextInt();
    t = in.nextInt();
}

```

```
a = amount * Math.pow(1 + (r * 0.01), t);  
interest = a - amount;
```

```
}  
void display()
```

```
{  
    super.display();  
    System.out.println("Compound Interest after" + t + "years:  
                        " + (interest));  
    System.out.println("Amount after" + t + "years: " + a);  
}
```

```
}  
}  
class current_acc extends Account
```

```
{  
    double min = 10000;  
    void input()  
    {  
        super.input();  
    }  
    void service_charge()  
    {  
        if (amount < min)  
            amount = amount - 500;  
    }  
}
```

```
void display()  
{  
    super.display();  
}
```

```
}  
}
```

class ~~demo~~ bankdemo

{

public static void main (String args[])

{

Scanner in = new Scanner(System.in);

System.out.println("choose type of account.");

System.out.println("1. savings account.");

System.out.println("2. current account.");

int choice = in.nextInt();

if (choice == 1)

{

Savings\_acc b = new Savings\_acc();

b.type(choice);

b.input();

System.out.println("do you want to deposit or  
withdraw? \n1. deposit \n2. withdraw  
\n");

int ch = in.nextInt();

if (ch == 1)

b.deposit();

else if (ch == 2)

b.withdrawal();

else

System.out.println("Invalid choice");

b.comp-interest();

b.display();

} else if (choice == 2)

{  
current\_acc b = new current\_acc();

b.type(choice);

b.input();

b.deposit(); b.service-charge(); b.display(); } else System.out.println("Invalid choice");