

LAB - 5

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Date:

youva

```
import java.util.Scanner;  
import java.lang.Math;  
class Account  
{
```

```
    String name;  
    int acctno;  
    char type;  
    double balance;  
    double dep;  
    boolean cheq;
```

```
    void get (char c)
```

```
    {  
        type = c;  
        if (c == 's' || c == 'S')  
            cheq = false;  
        else  
            cheq = true;  
        Scanner sc = new  
Scanner (System.in);  
        System.out.println("Enter your name");  
        name = sc.nextLine();  
        System.out.println("Enter the account number");  
        acctno = sc.nextInt();  
        System.out.println("Enter the current  
        available balance in your account");  
        balance = sc.nextDouble();  
    }
```



```
void putd()  
{
```

```
    system.out.println("Account details");  
    system.out.println("Name: " + name);  
    system.out.println("Account number: " + acctno);  
    system.out.println("Account type: " + type);  
    system.out.println("balance: " + balance);  
}
```

```
void dep()  
{
```

```
    Scanner ss = new  
    Scanner(system.in);  
    system.out.println("Enter amount to be  
        deposited");  
    dep = ss.nextDouble();  
    balance = balance + dep;  
    system.out.println("Amount is deposited  
        and balance is updated");  
}
```

```
void display()  
{
```

```
    system.out.println("Balance amount is " + balance);  
}
```

```
void check()  
{
```

```
    if (cheq == false)  
        system.out.println("Cheque book facility  
            is not available");  
    else
```

```
        system.out.println("Cheque book facility  
            is available");  
}
```


Class saving extends account

```
double rate;
double s-with;
int n;
int ch;
double amt;
double term;
double pr;
```

Void ui()

```
< scanner ss = new
  scanner(system.in);
system.out.println("enter the principal
  deposit amount");
pr = ss.nextDouble();
  pr = ss.nextDouble();
system.out.println("enter the rate of
  interest");
  rate = ss.nextDouble();
system.out.println("enter the terms (years)");
  term = ss.nextDouble();
system.out.println("enter the number of
  time interest is compounded annually");
n = ss.nextInt();
  n = ss.nextInt();
  amt = pr *
  Math.pow((1 + (rate/100)), (n * term));
  balance += amt;
system.out.println("interest is compounded,
  balance is updated");
```


Void with-s()

↙

```
Scanner ss = new
Scanner (system.in);
system.out.println("Enter the amount
of money to be withdrawn");
s-with = ss.nextDouble();
if (s-with > balance)
system.out.println("Insufficient balance");
else
    balance = balance - s-with;
system.out.println("Money is withdrawn
and balance is updated");
}
}
```

class current extends Account

↙

```
double c-with;
double pen;
double min;
current()
```

↙

```
pen = 100;
min = 500;
```

↘

Void with-c()

↙

```
Scanner xx = new
Scanner (system.in);
system.out.println("Enter the
amount to be withdrawn");
c-with = xx.nextDouble();
if (c-with > balance)
```



```

    < system.out.println("Insufficient
        funds!");
        return; }
    else
    < balance = balance - c.with;
    system.out.println("Amount is withdrawn
        and balance is updated"); }
    if (balance < min)
    <
    system.out.println("Balance is below the
        minimum threshold. Service penalty
        charge = 100/-");
        if (balance < pen)
    system.out.println("Due to insufficient funds,
        penalty charge will be deducted from
        account after replenishing current balance
        is " + balance);
        else
    <
        balance = balance - pen;
    system.out.println("Penalty charge has been
        deducted from account balance. Current
        balance is " + balance);
    }
    }
    }

```

Class lab5

<

```

    public static void main (String sss[])
    <

```



```

int cch, ch;
Scanner sx = new
Scanner (System.in);
System.out.println("Welcome");
System.out.println("Savings
account or current account ?
1- savings; 2- current");
int ch = sx.nextInt();
if (ch == 1)
{
    Saving s = new Saving();
    s.get('s');
    do {
        System.out.println("1. Deposit money\n
2. Calculate compound interest\n
3. Withdraw money\n
4. Display balance\n
5. cheque book facility\n
6. Exit");
        System.out.println("enter your
choice");
        ch = sx.nextInt();
        switch (ch)
        {
            case 1:
                s.dep();
                break;
            case 2:
                s.ci();
                break;
            case 3:
                s.with-s();
                break;
        }
    } while (ch != 6);
}

```



```

    case 4:
        s.display();
        break;
    case 5:
        s.check();
        break;
    case 6:
        break;
    default:
        System.out.println("Wrong option.");
        break;
}
} while (ch != 6);
}
else if (ch == 2)
{
    current cr = new account();
    cr.get('i');
    do {
        System.out.println("1. Deposit
money\n 2. Cheque book facility\n 3.
Withdraw money\n 4. Display balance
\n 5. Exit");
        cch = sx.nextInt();
        switch (cch)
        {
            case 1:
                cr.dip();
                break;
            case 2:
                cr.check();
                break;

```


Case 3 :

or with C();

break ;

Case 4 :

or display();

break ;

Case 5 :

break ;

default :

system.out.println("wrong option");

break ;

}

} while (cch != 5);

} else

system.out.println("wrong !");

}

}