

## Lab-5

```
import java.util.Scanner;
class account
{
    String name, acc num, accType;
    boolean checkbook = true;

    double balance;
    account() {}

    void input ()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter name,
            acc number");
        name = sc.next();
        acc num = sc.next();

        System.out.println("Enter balance");
        balance = sc.nextInt();
    }

    void displayfalls()
    {
        System.out.println("\n name = "
            + name + "\n acc number = " + acc num +
            "\n balance = " + balance + "\n
            accountType = " + accType);
    }
}
```



```
void display()
{
```

```
    System.out.printf("balance = %.2f",
        balance);
```

```
    }
}
```

```
class curracct extends account
{
```

```
    curracct()
```

```
    {
```

```
        acctype = "current";
```

```
    }
```

```
    double minbal = 5000;
```

```
void check()
```

```
{
```

```
    double penalty = 100;
```

```
    if (balance < minbal)
```

```
    {
```

```
        balance = balance - penalty;
```

```
        System.out.println("penalty is imposed" + "\n balance = " + balance);
```

```
    }
```

```
    else
```

```
    {
```

```
        System.out.println("penalty not imposed");
```

```
    }
```

```
}
```



void deposit()

{

Scanner sc = new Scanner(System.in);  
System.out.println("Enter amount  
to deposit:");

double amt = sc.nextDouble();

balance = balance + amt;

}

}

class savacc extends Account

{

savacc()

{

accType = "Savings";

}

double ci;

void calcompound(int n, int r)

{

ci = balance \* (Math.pow(1 + (0.2/n), n));

balance = balance + ci;

System.out.println("compound

Interest = %.2f", ci);

System.out.println("In balance: %.2f",  
balance);

}

void withdraw(double amt)

{

double min balance = 5000;

if (balance < 5000)

System.out.println("amt cant be withdrw");

else

balance = balance - amt;

}



```
void deposit()
{
```

```
    System.out.println("Enter amt");
    double deamt = sc.nextDouble();
    balance = balance + deamt;
    System.out.println("balance = %..2f",
        balance);
}
```

```
}
```

```
class AccountMain {
```

```
    {
        System.in
        Scanner sc = new Scanner();
```

```
    System.out.println("Enter 1 for
        savings acc 2 for current account");
```

```
    int acctype = sc.nextInt();
    Savacc s = new Savacc();
    curraacc c = new curraacc();
```

```
    if (acctype == 1)
    {
```

```
        System.out.println("Enter your
            details:");
```

```
        s.input();
```

```
        s.displayDetails();
```

```
        System.out.println("Enter
            n, I");
```

```
        int n = sc.nextInt();
```

```
        int I = sc.nextInt();
```

```
        s.calcompount(n, I);
```

```
        int n1 = 1;
```



```

while(n1==1){
    System.out.println("\nEnter
    1. deposit 2. withdrawal 3. exit")
    int uc = sc.nextInt();
    if (uc == 1)
    {
        s.deposit();
    }
    else if (uc == 2)
    {
        System.out.println("Enter amt");
        double amt = sc.nextDouble();
        s.withdrawal(amt);
        s.display();
    }
    else
    {
        System.exit(0);
    }
}

else if (accType == 2)
{
    System.out.println("Enter your
    details");
    c.input();
    c.displaydetails();
    c.check();
    c.deposit();
    c.display();
}
}
}

```