

/*complex no add mul sub cla*/

```
class Complex
```

```
{
```

```
float real,img;
```

```
Complex()
```

```
{
```

```
real=0;
```

```
img=0;
```

```
}
```

```
Complex(float a,float b)
```

```
{
```

```
real=a;
```

```
img=b;
```

```
}
```

```
void Display(Complex c1,Complex c2)
```

```
{
```

```
System.out.println("first no: (" +c1.real+" ) + (" +c1.img+" )i");
```

```
System.out.println("second no: (" +c2.real+" ) + (" +c2.img+" )i");
```

```
}
```

```
void Sum(Complex c1,Complex c2)
```

```
{
```

```
System.out.println("sum result: (" +(c1.real+c2.real)+" ) + (" +(c1.img+c2.img)+" )i");
```

```
}
```

```
void Sub(Complex c1,Complex c2)
```

```
{
```

```
System.out.println("sub result: (" +(c1.real-c2.real)+" ) + (" +(c1.img-c2.img)+" )i");
```

```
}
```

```
void Mul(Complex c1,Complex c2)
```

```
{
```

```
System.out.println("mul result: (" +(c1.real*c2.real-c1.img*c2.img)+" ) + (" +(c1.real*c2.img+c1.img*c2.real)+" )i");
```

```

}
}
class Complex_No
{
public static void main(String args[])
{
Complex cal=new Complex();
float num1,num2;
num1=Float.parseFloat(args[0]);
num2=Float.parseFloat(args[1]);
Complex com1=new Complex(num1,num2);
num1=Float.parseFloat(args[2]);
num2=Float.parseFloat(args[3]);
Complex com2=new Complex(num1,num2);
System.out.println("\n");
cal.Display(com1,com2);
System.out.println("\n");
cal.Sum(com1,com2);
cal.Sub(com1,com2);
cal.Mul(com1,com2);
}
}

```

```

C:\Users\HP\OneDrive\Desktop\practice-java 4th sem>javac Complex_No.java
C:\Users\HP\OneDrive\Desktop\practice-java 4th sem>java Complex_No 5 4 5 -4

first no: (5.0) + (4.0)i
second no: (5.0) + (-4.0)i

sum result: (10.0) + (0.0)i
sub result: (0.0) + (8.0)i
mul result: (41.0) + (0.0)i

C:\Users\HP\OneDrive\Desktop\practice-java 4th sem>

```