

جمع اعداد مختلط به زبان جاوا:

```
public class Complex {  
    int real, imaginary;  
  
    public static void main (String[] args) {  
        Complex C1 = new Complex(3, 2);  
        C1.printComplexNumber();  
        Complex C2 = new Complex(9, 5);  
        C2.printComplexNumber();  
        Complex C3 = new Complex();  
        C3 = C3.addComp(C1, C2);  
        System.out.print("Sum of ");  
        C3.printComplexNumber();  
    }  
  
    public Complex() {  
    }  
  
    public Complex (int real, int imaginary) {  
        this.real = real;  
        this.imaginary = imaginary;  
    }  
  
    Complex addComp (Complex C1, Complex C2) {  
        Complex temp = new Complex();  
        temp.real = C1.real + C2.real;  
        temp.imaginary = C1.imaginary + C2.imaginary;  
        // returning the sum  
        return temp;  
    }  
  
    void printComplexNumber() {  
        System.out.println ("Complex number: " + real + " + " + imaginary + "i");  
    }  
}
```

```
}  
}
```

تفریق اعداد مختلط به زبان جاوا:

```
public class Complex {  
    int real, imaginary;  
    public static void main(String[] args) {  
        Complex C1 = new Complex(3, 2);  
        C1.printComplexNumber();  
        Complex C2 = new Complex(9, 5);  
        C2.printComplexNumber();  
        Complex C3 = new Complex();  
        C3 = C3.subtract(C1, C2);  
        System.out.print("Difference of ");  
        C3.printComplexNumber();  
    }  
    public Complex() {  
    }  
    public Complex(int real, int imaginary) {  
        this.real = real;  
        this.imaginary = imaginary;  
    }  
    Complex subtract(Complex C1, Complex C2) {  
        Complex temp = new Complex();  
        temp.real = C1.real - C2.real;  
        temp.imaginary = C1.imaginary - C2.imaginary;  
        return temp;  
    }  
    void printComplexNumber() {
```

```

        System.out.println("Complex number: " + real + " + " + imaginary + "i");
    }
}

```

ضرب اعداد مختلط به زبان جاوا:

```

public class Complex {
    int real, imaginary;

    public static void main(String[] args) {
        Complex C1 = new Complex(3, 2);
        C1.printComplexNumber();
        Complex C2 = new Complex(9, 5);
        C2.printComplexNumber();
        Complex C3 = new Complex();
        C3 = C3.Multiplication(C1, C2);
        System.out.print("Multiplication of ");
        C3.printComplexNumber();
    }

    public Complex() {
    }

    public Complex(int real, int imaginary) {
        this.real = real;
        this.imaginary = imaginary;
    }

    Complex Multiplication(Complex C1, Complex C2) {
        Complex temp = new Complex();
        temp.real = C1.real * C2.real - C1.imaginary * C2.imaginary;
        temp.imaginary = C1.real * C2.imaginary + C1.imaginary * C2.real;
        return temp;
    }
}

```

```
void printComplexNumber() {  
    System.out.println("Complex number: " + real + " + " + imaginary + "i");  
}  
}
```