

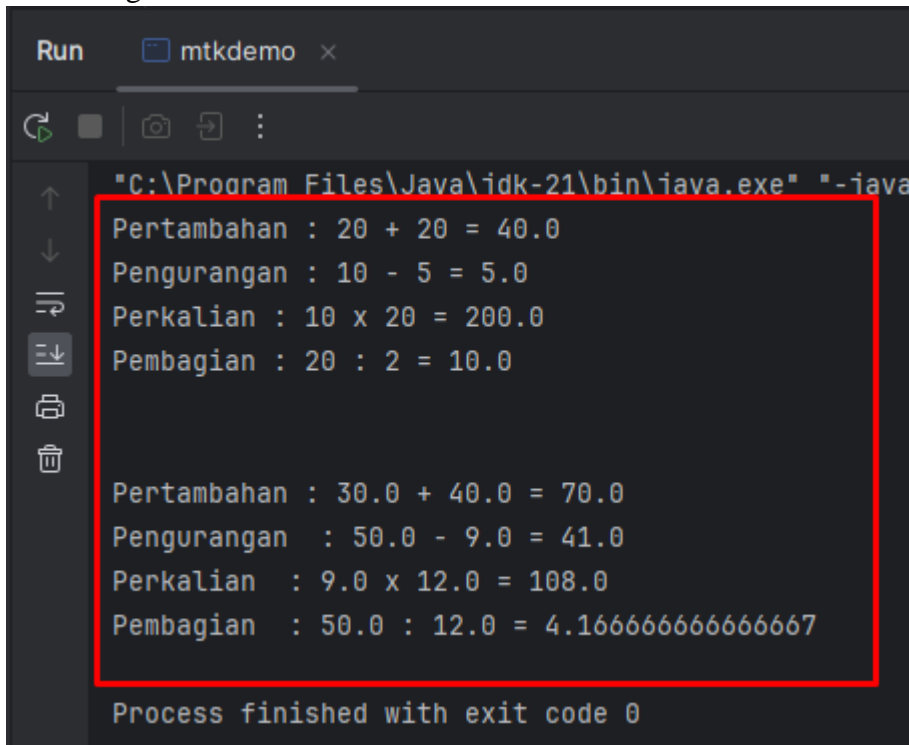
Mata Kuliah : PBO – TI – S1

Pertemuan : 3

NIM : A11.2022.14532

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1. Tugas 1 : Program pertambahan, pengurangan, perkalian dan pembagian  
Hasil Program :

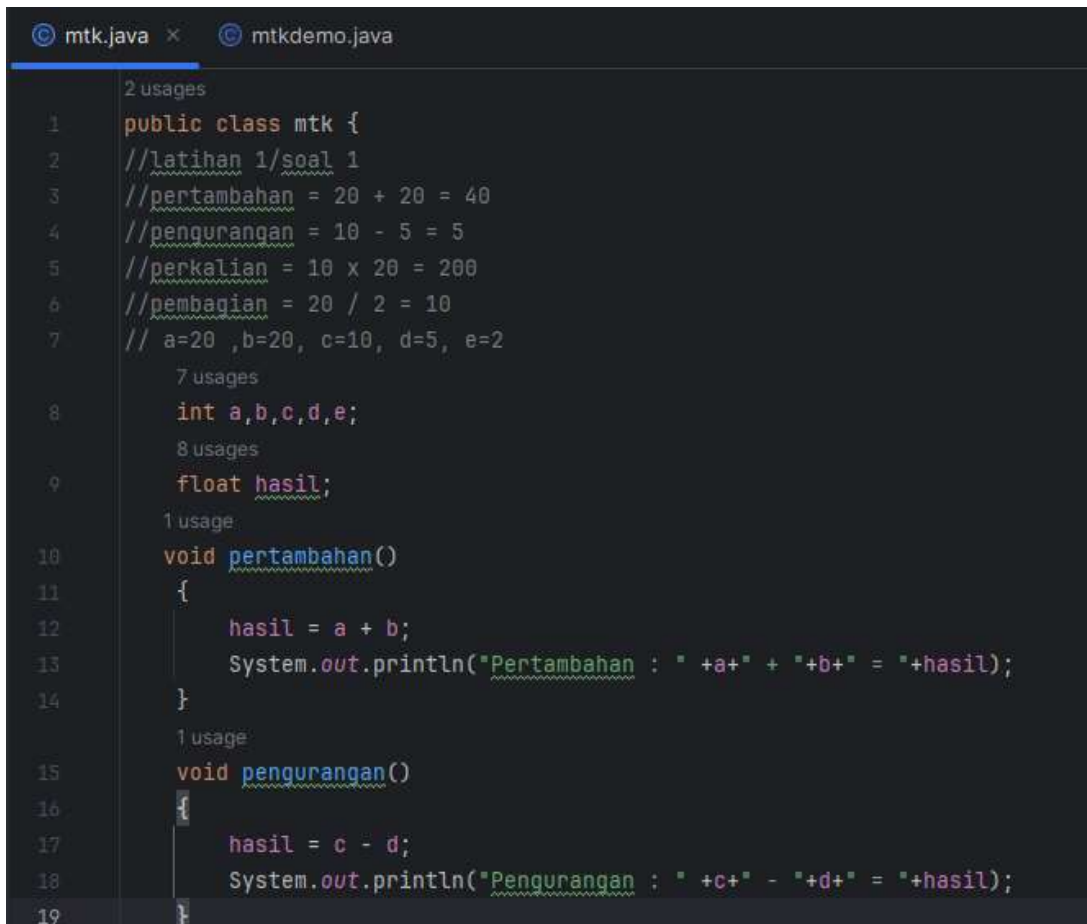


```
Run mtkdemo x
"C:\Program Files\Java\jdk-21\bin\java.exe" "-java
Pertambahan : 20 + 20 = 40.0
Pengurangan : 10 - 5 = 5.0
Perkalian : 10 x 20 = 200.0
Pembagian : 20 : 2 = 10.0

Pertambahan : 30.0 + 40.0 = 70.0
Pengurangan : 50.0 - 9.0 = 41.0
Perkalian : 9.0 x 12.0 = 108.0
Pembagian : 50.0 : 12.0 = 4.166666666666667

Process finished with exit code 0
```

Code Program :



```
mtk.java x mtkdemo.java
2 usages
1 public class mtk {
2 //latihan 1/soal 1
3 //pertambahan = 20 + 20 = 40
4 //pengurangan = 10 - 5 = 5
5 //perkalian = 10 x 20 = 200
6 //pembagian = 20 / 2 = 10
7 // a=20 ,b=20, c=10, d=5, e=2
8 int a,b,c,d,e;
9 float hasil;
10 void pertambahan()
11 {
12     hasil = a + b;
13     System.out.println("Pertambahan : " +a+ " + "+b+" = "+hasil);
14 }
15 void pengurangan()
16 {
17     hasil = c - d;
18     System.out.println("Pengurangan : " +c+ " - "+d+" = "+hasil);
19 }
```

```

1 usage
20 void perkalian()
21 {
22     hasil = c * a;
23     System.out.println("Perkalian : " +c+ " x "+a+ " = "+hasil);
24 }
1 usage
25 void pembagian()
26 {
27     hasil = (float) a /e;
28     System.out.println("Pembagian : " +a+ " : "+e+ " = "+hasil);
29     System.out.println("\n");
30 }
31 //menampung data pecahan
32 double z,x,y,w,t,hsl;
33 1 usage
34 void Addition()
35 {
36     hsl = z + x;
37     System.out.println("Pertambahan : " +z+ " + "+x+ " = "+hsl);
38 }
39 1 usage
40 void Subtraction()
41 {
42     hsl = y - w;
43     System.out.println("Pengurangan : " +y+ " - "+w+ " = "+hsl);
44 }

```

```

43 void Multiplication()
44 {
45     hsl = w * t;
46     System.out.println("Perkalian : " +w+ " x "+t+ " = "+hsl);
47 }
48 1 usage
49 void Division()
50 {
51     hsl = y / t;
52     System.out.println("Pembagian : " +y+ " : "+t+ " = "+hsl);
53 }

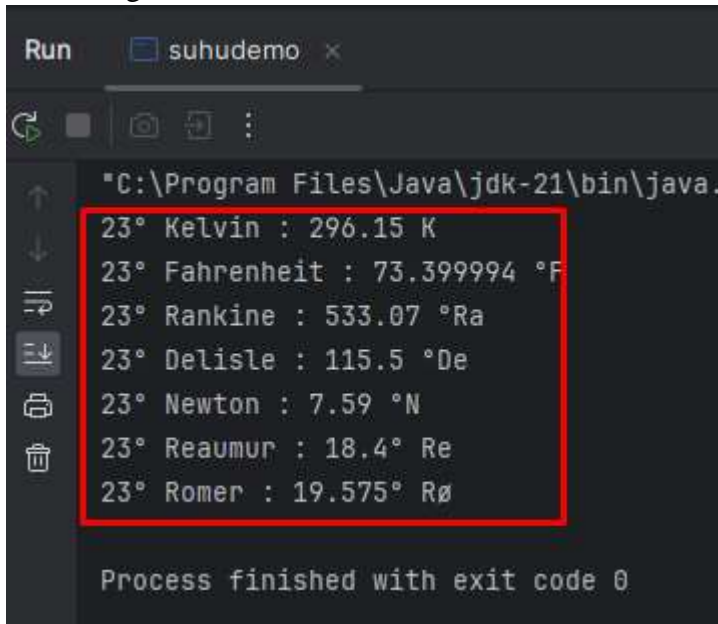
```

```
© mtk.java    © mtkdemo.java ×

1 ▶ public class mtkdemo {
2     //latihan 1/soal 1
3     //pertambahan = 20 + 20 = 40
4     //pengurangan = 10 - 5 = 5
5     //perkalian = 10 x 20 = 200
6     //pembagian = 20 / 2 = 10
7     // a=20 ,b=20, c=10, d=5, e=2
8 ▶     public static void main(String[]args)
9     {
10         mtk mat = new mtk();
11         mat.a=20;
12         mat.b=20;
13         mat.c=10;
14         mat.d=5;
15         mat.e=2;
16         mat.pertambahan();
17         mat.pengurangan();
18         mat.perkalian();
19         mat.pembagian();
20
21         //hitung data dapat menampung pecahan
22         mat.z=30;
23         mat.x=40;
24         mat.y=50;
25         mat.w=9;
26         mat.t=12;
27         mat.Addition();//pertambahan
28         mat.Subtraction();//pengurangan
29         mat.Subtraction();//pengurangan
30         mat.Multiplication();//perkalian
31         mat.Division();//pembagian
32     }
33 }
34
```

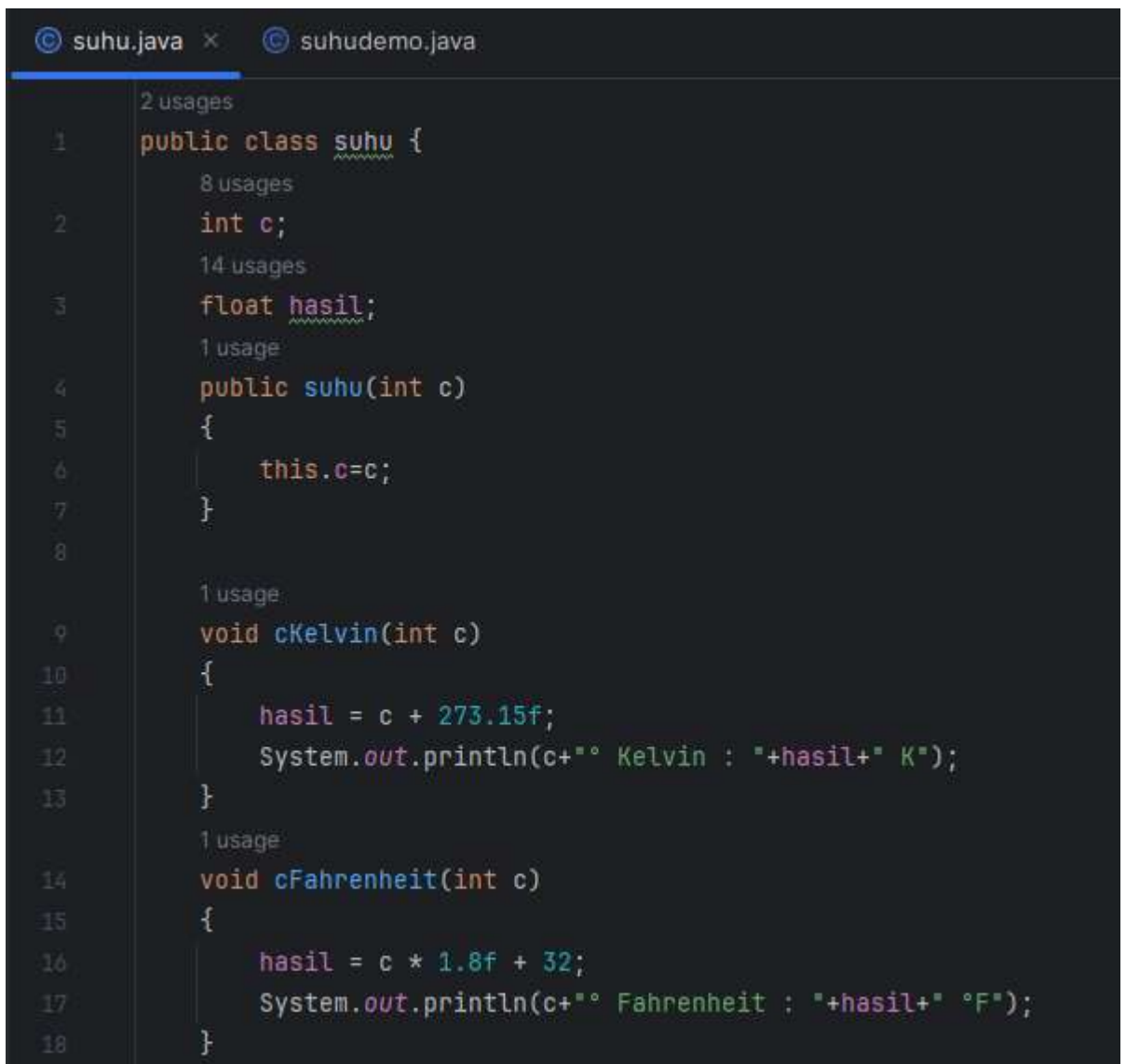
## 2. Tugas 2 : Program konversi suhu

Hasil Program :



```
Run suhudemo x
"C:\Program Files\Java\jdk-21\bin\java."
23° Kelvin : 296.15 K
23° Fahrenheit : 73.399994 °F
23° Rankine : 533.07 °Ra
23° Delisle : 115.5 °De
23° Newton : 7.59 °N
23° Reaumur : 18.4° Re
23° Romer : 19.575° Rø
Process finished with exit code 0
```

Code Program :



```
suhu.java x suhudemo.java
2 usages
1 public class suhu {
    8 usages
2     int c;
    14 usages
3     float hasil;
    1 usage
4     public suhu(int c)
5     {
6         this.c=c;
7     }
8
    1 usage
9     void cKelvin(int c)
10    {
11        hasil = c + 273.15f;
12        System.out.println(c+"° Kelvin : "+hasil+" K");
13    }
    1 usage
14    void cFahrenheit(int c)
15    {
16        hasil = c * 1.8f + 32;
17        System.out.println(c+"° Fahrenheit : "+hasil+" °F");
18    }
}
```

```
© suhu.java × © suhudemo.java

1 usage
19 void cRankine(int c)
20 {
21     hasil = c * 1.8f + 491.67f;
22     System.out.println(c+"° Rankine : "+hasil+" °Ra");
23 }
1 usage
24 void cDelisle(int c)
25 {
26     hasil = (100 - c) * 1.5f;
27     System.out.println(c+"° Delisle : "+hasil+" °De");
28 }
1 usage
29 void cNewton(int c)
30 {
31     hasil = c * 33/100f;
32     System.out.println(c+"° Newton : "+hasil+" °N");
33 }
1 usage
34 void cReaumur(int c)
35 {
36     hasil = c * 0.8f;
37     System.out.println(c+"° Reaumur : "+hasil+"° Re");
38 }
```

```
1 usage
39 void cRomer(int c)
40 {
41     hasil = c * 21/40f + 7.5f;
42     System.out.println(c+"° Romer : "+hasil+"° Rø");
43 }
44
45 }
```

```
© suhu.java © suhudemo.java ×

1 ▶ public class suhudemo {
2 ▶ public static void main(String[] args)
3 {
4     suhu derajat = new suhu(c: 23);
5     derajat.cKelvin(derajat.c);
6     derajat.cFahrenheit(derajat.c);
7     derajat.cRankine(derajat.c);
8     derajat.cDelisle(derajat.c);
9     derajat.cNewton(derajat.c);
10    derajat.cReaumur(derajat.c);
11    derajat.cRomer(derajat.c);
12 }
13 }
14
```