

## IMPLEMENTASI

### 1. Source Code

```
indeks = {  
    "Celcius   ": "c",  
    "Reamur    ": "r",  
    "Fahrenheit": "f",  
    "Kelvin    ": "k"  
}  
  
print("=====Indeks Satuan Skala Suhu=====")  
  
for i in indeks:  
    print("Satuan suhu:", i, "\t Indeks : ", indeks[i])  
  
  
suhu = float(input ("Masukkan Suhu : "))  
satuan = input ("Masukkan indeks satuan skala suhu : ")  
  
if (satuan == "c"):  
    print(suhu, "derajat celcius : ")  
    print("Reamur = ", (suhu*4/5), "derajat")  
    print("Fahrenheit = ", (suhu*9/5)+32, "derajat")  
    print("Kelvin =", suhu + 273, "derajat")  
elif (satuan == "r"):  
    print(suhu, "derajat reamur : ")  
    print("Celcius = ", (suhu*5/4), "derajat")  
    print("Fahrenheit = ", (suhu*9/4)+32, "derajat")  
    print("Kelvin = ", (suhu*5/4)+273, "derajat")  
elif (satuan == "f"):  
    print(suhu, "derajat fahrenheit : ")  
    print("Celcius = ", (5/9)*(suhu-32), "derajat")  
    print("Reamur = ", (4/9)*(suhu-32), "derajat")
```

```

print("Kelvin = ", (5/9)*(suhu-32)+273, "derajat")
elif (satuan == "k"):
    print(suhu, "derajat kelvin : ")
    print("Celcius = ", (suhu-273), "derajat")
    print("Reamur = ", (4/5 * (suhu-273)), "derajat")
    print("Fahrenheit = ", ((9/5)*(suhu-273) + 32), "derajat")

```

## 2. Hasil

The screenshot shows a Visual Studio Code window with a file named `konversi_suhu.py`. The script defines a dictionary of temperature scales and their indices, prompts the user to input a temperature value and a scale index, and then performs the conversion based on the selected scale. The terminal output shows the program running successfully, displaying the indices for each scale and the user's input.

```

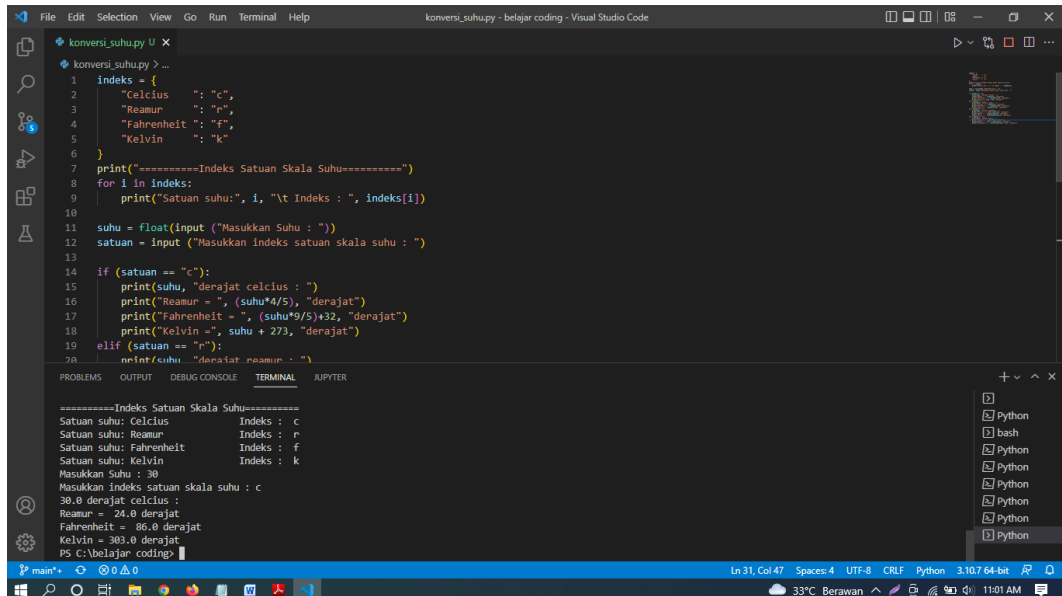
konversi_suhu.py
1 indeks = {
2     "Celcius": "c",
3     "Reamur": "r",
4     "Fahrenheit": "f",
5     "Kelvin": "k"
6 }
7 print("=====Indeks Satuan Skala Suhu=====")
8 for i in indeks:
9     print("Satuan suhu:", i, "\t Indeks : ", indeks[i])
10
11 suhu = float(input("Masukkan Suhu : "))
12 satuan = input("Masukkan indeks satuan skala suhu : ")
13
14 if (satuan == "c"):
15     print(suhu, "derajat celcius : ")
16     print("Reamur = ", (suhu*4/5), "derajat")
17     print("Fahrenheit = ", (suhu*9/5)+32, "derajat")
18     print("Kelvin = ", suhu + 273, "derajat")
19 elif (satuan == "r"):
20     print(suhu, "derajat reamur : ")

```

```

PS C:\belajar coding> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/belajar coding/konversi_suhu.py"
=====Indeks Satuan Skala Suhu=====
Satuan suhu: Celcius      Indeks : c
Satuan suhu: Reamur       Indeks : r
Satuan suhu: Fahrenheit   Indeks : f
Satuan suhu: Kelvin       Indeks : k
Masukkan Suhu : 

```



```
1 indeks = {
2     "Celcius": "c",
3     "Reamur": "r",
4     "Fahrenheit": "f",
5     "Kelvin": "k"
6 }
7 print("=====Indeks Satuan Skala Suhu=====")
8 for i in indeks:
9     print("Satuan suhu:", i, "\t Indeks : ", indeks[i])
10
11 suhu = float(input("Masukkan Suhu : "))
12 satuan = input("Masukkan Indeks satuan skala suhu : ")
13
14 if (satuan == "c"):
15     print(suhu, "derajat celcius : ")
16     print("Reamur = ", (suhu*4/5), "derajat")
17     print("Fahrenheit = ", (suhu*9/5)+32, "derajat")
18     print("Kelvin = ", suhu + 273, "derajat")
19 elif (satuan == "r"):
20     print(suhu, "derajat reamur : ")
21     print("Celcius = ", (suhu*5/4), "derajat")
22     print("Fahrenheit = ", (suhu*9/4)+32, "derajat")
23     print("Kelvin = ", suhu + 273, "derajat")
24 elif (satuan == "f"):
25     print(suhu, "derajat fahrenheit : ")
26     print("Celcius = ", (suhu-32)*5/9, "derajat")
27     print("Reamur = ", (suhu-32)*4/9, "derajat")
28     print("Kelvin = ", (suhu-32)*5/9+273, "derajat")
29 elif (satuan == "k"):
30     print(suhu, "derajat kelvin : ")
31     print("Celcius = ", suhu-273, "derajat")
32     print("Reamur = ", (suhu-273)*4/5, "derajat")
33     print("Fahrenheit = ", suhu-273*9/5+32, "derajat")
34
35 print("=====")
```

=====Indeks Satuan Skala Suhu=====

Satuan suhu:	Indeks :
Celcius	c
Reamur	r
Fahrenheit	f
Kelvin	k

Masukkan Suhu : 30  
Masukkan Indeks satuan skala suhu : c  
30.0 derajat celcius :  
Reamur = 24.0 derajat  
Fahrenheit = 86.0 derajat  
Kelvin = 303.0 derajat  
PS C:\belajar coding>

### 3. Penjelasan Program

Coding merupakan sebuah kegiatan yang dilakukan untuk menuliskan deretan program dengan bahasa tertentu, bertujuan sebagai bentuk komunikasi yang dilakukan oleh manusia kepada mesin komputasi untuk memecahkan sebuah masalah atau melakukan tugas.

Codingan yang saya buat tentang konversi suhu, yakni program yang dibuat untuk merubah nilai suhu beserta dengan satuan yang digunakan untuk suhu tertentu. Satuan suhu diatas meliputi Celcius, Fahrenheit, Reamur, dan Kelvin. Fungsinya untuk memudahkan kita dalam proses penghitungan atau pengkonversian suhu.