

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, "deajat")

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 Python file named `konversi.suhu.py`. The script defines a dictionary of temperature scales and their corresponding indices, prompts the user for a temperature value and a scale index, and then performs the conversion based on the selected scale. The terminal output shows the program's execution, displaying the available scales and the user's input.

```

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"):

```

```

PS C:\Users\User> & C:/Users/User/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/User/Documents/Python - Pelatihan Coding/Belajar Python/Konversi Suhu/
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"):
```

=====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 : 40

Masukkan indeks satuan skala suhu : c

40.0 derajat celcius :

Reamur = 32.0 derajat

Fahrenheit = 104.0 derajat

Kelvin = 313.0 derajat

PS C:\Users\User> |

3. Penjelasan Program

Coding adalah kegiatan dengan menuliskan langkah-langkah pemrograman dalam bentuk kode. Nah codingan yang saya buat di atas adalah coding konversi suhu, artinya langkah-langkah untuk menentukan nilai derajat dari ke empat suhu yaitu celcius, reamur, fahrenheit, dan kelvin. Fungsinya adalah agar memudahkan kita dalam menyelesaikan atau menentukan nilai dari ke empat suhu tersebut.