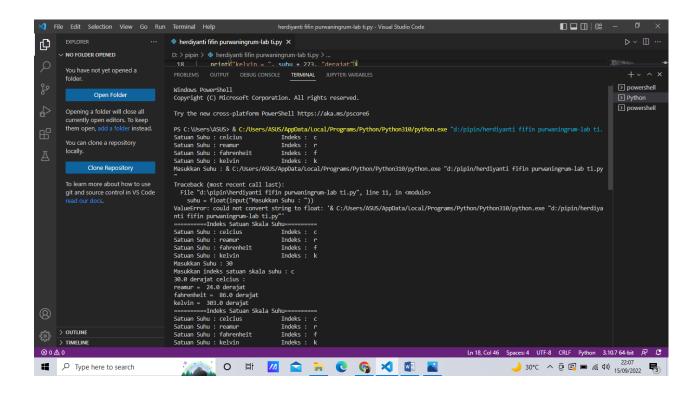
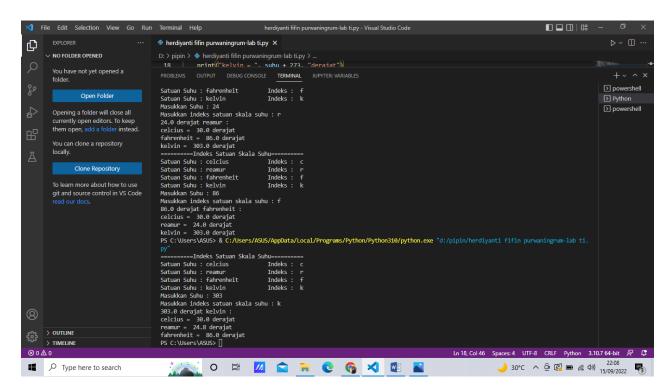
IMPLEMENTASI

• Source Code

```
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")
       print("fahrenheit = ", (suhu*9/5)+32, "derajat")
17.
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")
       print("kelvin = ", (suhu*5/4) + 273, "derajat")
23.
24.elif (satuan == "f"):
25.
       print(suhu, "derajat fahrenheit : ")
       print("celcius = ", (5/9)*(suhu-32), "derajat")
26.
27.
       print("reamur = ", (4/9 * (suhu-32)), "derajat")
       print("kelvin = ", (5/9)*(suhu-32)+273, "derajat")
28.
29.elif (satuan == "k"):
30.
       print(suhu, "derajat kelvin : ")
31.
       print("celcius = ", suhu-273, "derajat")
       print("reamur = ", (4/5 * (suhu-272)), "derajat")
32.
       print("fahrenheit = ", ((9/5)*(suhu-273) +32), "derajat")
33.
34.
```

• Hasil





• Penjelasan Program

Fungsi dari codingan di atas adalah untuk menyelesaikan permasalahan yang sudah ditugaskan, yaitu menghitung konversi suhu dari celcius ke reamur, fahrenheit, kelvin, dan juga sebaliknya dengan menggunakan bahasa pemrograman python.

```
indeks = {
    "celcius ": "c",
    "reamur ": "r",
    "fahrenheit ": "f",
    "kelvin ": "k",
}
```

Di atas merupakan 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-272)), "derajat")
    print("fahrenheit = ", ((9/5)*(suhu-273) +32), "derajat")
```

Di atas merupakan rumus-rumus dari konversi suhu

```
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-272)), "derajat")
    print("fahrenheit = ", ((9/5)*(suhu-273) +32), "derajat")
```

Print di atas digunakan untuk mencetak kalimat dan hasil pada program yang dihasilkan. Selanjutnya menggunakan print dan rumus yang sesuai pada sebelumnya untuk menghitung dan mendapatkan hasil yang benar. Hasil yang tercetak akan sesuai dengan rumus yang telah ditulis.

Nama: Herdiyanti Fifin Purwaningrum

NIM : 220441100083

Ruang: LAB TI