LAPORAN PRAKTIKUM

PEMROGRAMAN VISUAL

2023

Prepared By:

PEMROGRAMAN VISUAL

Diajukan untuk memenuhi salah satu tugas mata kuliah Pemrograman Visual yang diampu oleh **Freddi Wicaksono**

Disusun Oleh :

Nama : Muhammad Faqih Wirahadi Wijaya Kusuma

Nim : 201511039

Kelas : R4 / TI 20 D

PROGRAM STUDI TEKNIK INFORMATIKA

FAKULTAS TEKNIK

UNIVERSITAS MUHAMMADIYAH CIREBON

2023

Tugas 4

1. **Buatlah program sederhana untuk konversi dari Reamur ke : Celcius, Fahrenheit, dan Kelvin**
2. **Buatlah program sederhana untuk konversi dari Kelvin ke: Celcius, Fahrenheit, dan Reamur**

Gunakan Teknik Pemrograman Terstruktur

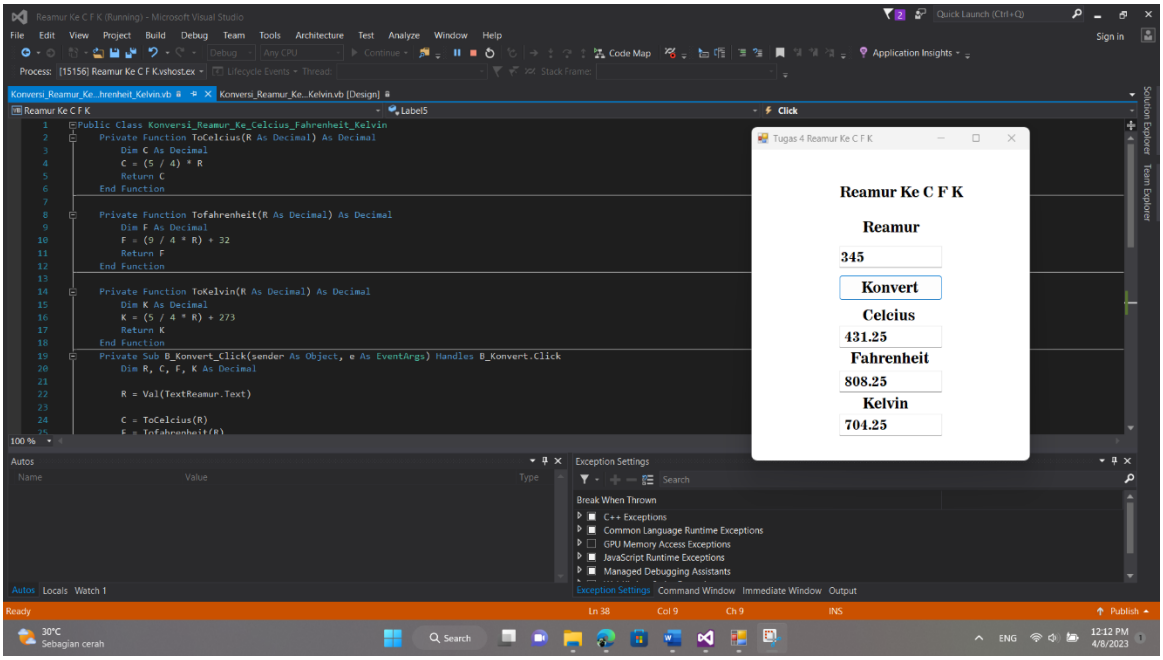
Rumus Dasar Konversi Suhu

- **C→F** = (C * 9/5) + 32
- **C→K** = C + 273.15
- **C→R** = 4/5 * C
- **F→C** = (F - 32) * 5/9
- **F→K** = (F - 32) * 5/9 + 273.15
- **F→R** = 4/9 * (F-32)
- **K→C** = K - 273.15
- **K→F** = (K - 273.15) * 9/5 + 32
- **K→R** = 4/5 * (K-273)
- **R→C =** (5/4) * R
- **R→F =** (9/4 * R) + 32
- **R→K =** C + 273

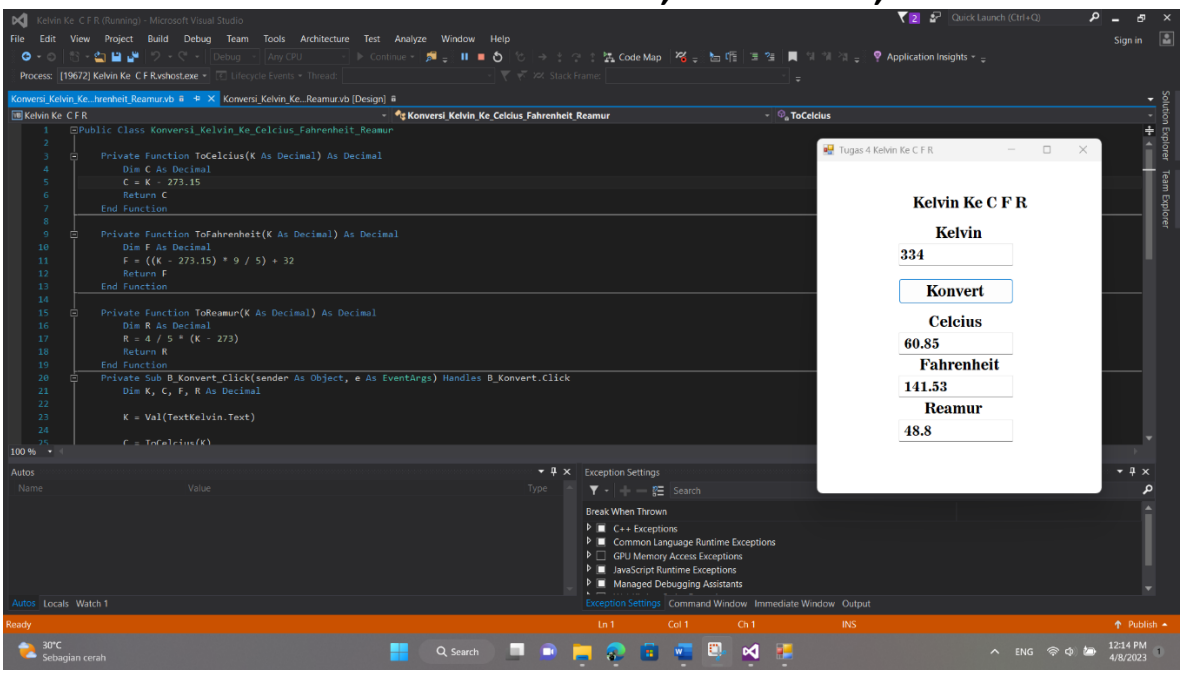
	Celcius	Reamur	Kelvin	Fahrenheit
Celcius		R = (4/5) C	K = C + 273	F = (9/5) C + 32
Reamur	C = (5/4) R		K = C + 273 = (5/4) R + 273	F = (9/4) R + 32
Fahrenheit	C = 5/9 (F-32)	R = 4/9 (F-32)	K = 5/9 (F-32) + 273	
Kelvin	C = K – 273	R = 4/5 (K-273)		F = 9/5 (K-273) + 32

ScreenShoot

1. **konversi dari Reamur ke : Celcius, Fahrenheit, dan Kelvin**



2. **untuk konversi dari Kelvin ke: Celcius, Fahrenheit, dan Reamur**



Scrip Coding

- **konversi dari Reamur ke : Celcius, Fahrenheit, dan Kelvin (Terstruktur)**

```
Public Class Konversi_Reamur_Ke_Celcius_Fahrenheit_Kelvin
    Private Function ToCelcius(R As Decimal) As Decimal
        Dim C As Decimal
        C = (5 / 4) * R
        Return C
    End Function

    Private Function Tofahrenheit(R As Decimal) As Decimal
        Dim F As Decimal
        F = (9 / 4 * R) + 32
        Return F
    End Function

    Private Function ToKelvin(R As Decimal) As Decimal
        Dim K As Decimal
        K = (5 / 4 * R) + 273
        Return K
    End Function
    Private Sub B_Konvert_Click(sender As Object, e As EventArgs) Handles
B_Konvert.Click
        Dim R, C, F, K As Decimal

        R = Val(TextReamur.Text)

        C = ToCelcius(R)
        F = Tofahrenheit(R)
        K = ToKelvin(R)

        TextCelcius.Text = Str(C)
        TextFahrenheit.Text = Str(F)
        TextKelvin.Text = Str(K)
    End Sub
End Class
```

- **untuk konversi dari Kelvin ke: Celcius, Fahrenheit, dan Reamur (TERSTRUKTUR)**

```
Public Class Konversi_Kelvin_Ke_Celcius_Fahrenheit_Reamur

    Private Function ToCelcius(K As Decimal) As Decimal
        Dim C As Decimal
        C = K - 273.15
        Return C
    End Function

    Private Function ToFahrenheit(K As Decimal) As Decimal
        Dim F As Decimal
        F = ((K - 273.15) * 9 / 5) + 32
        Return F
    End Function

    Private Function ToReamur(K As Decimal) As Decimal
        Dim R As Decimal
        R = 4 / 5 * (K - 273)
        Return R
    End Function
    Private Sub B_Konvert_Click(sender As Object, e As EventArgs) Handles
B_Konvert.Click
        Dim K, C, F, R As Decimal

        K = Val(TextKelvin.Text)

        C = ToCelcius(K)
        F = ToFahrenheit(K)
        R = ToReamur(K)

        TextCelcius.Text = Str(C)
        TextFahrenheit.Text = Str(F)
        TextReamur.Text = Str(R)
    End Sub
End Class
```