

LAPORAN PRAKTIKUM

PEMROGRAMAN VISUAL

2023



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TIF20C

LAPORAN PRAKTIKUM 3

PEMROGRAMAN VISUAL



Disusun Oleh :

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KATA PENGANTAR

Puji syukur kita panjatkan kehadiran Allah SWT yang telah memberikan rahmat dan hidayah-Nya sehingga saya dapat menyelesaikan tugas yang berjudul “Laporan Praktikum Pemrograman Visual”.

Adapun tujuan dari penulisan laporan ini adalah untuk memenuhi tugas pada matakuliah Pemrograman Visual. Selain itu, laporan ini juga bertujuan untuk menambah ilmu tentang Object Oriented Programming (OOP).

Saya menyadari, tugas yang saya tulis ini masih jauh dari kata sempurna. Oleh karena itu, kritik dan saran yang membangun saya butuhkan demi kesempurnaan laporan praktikum ini.

Cirebon, 9 April 2023

Penyusun

APLIKASI SEDERHANA MENGGUNAKAN TEKNIK PEMROGRAMAN TERSTRUKTUR

1. Menghitung Luas dan Keliling Belahketupat

Source code :

```
Public Class Form1

    Private Sub Label15_Click(sender As Object, e As EventArgs) Handles
Label15.Click

        End Sub

    Private Function HitungLuas(diagonal1 As Integer, diagonal2 As Integer)
As Integer
        Dim luas As Integer
        luas = 0.5 * diagonal1 * diagonal2
        Return luas
    End Function

    Private Function HitungKeliling(sisi As Integer) As Integer
        Dim keliling As Integer
        keliling = 4 * sisi
        Return keliling
    End Function

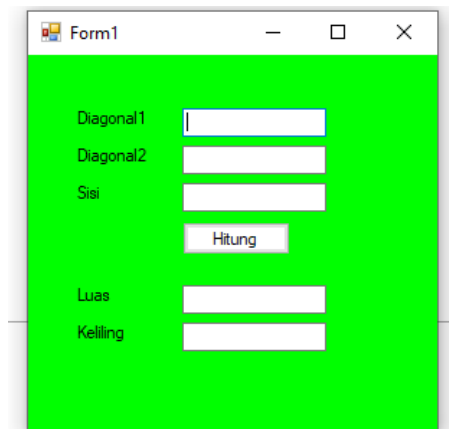
    Private Sub btnHitung_Click(sender As Object, e As EventArgs) Handles
btnHitung.Click
        Dim diagonal1, diagonal2, sisi, luas, keliling As Integer

        diagonal1 = txtDiagonal1.Text
        diagonal2 = txtDiagonal2.Text
        sisi = txtSisi.Text

        luas = HitungLuas(diagonal1, diagonal2)
        keliling = HitungKeliling(sisi)

        txtLuas.Text = Str(luas)
        txtKeliling.Text = Str(keliling)
    End Sub
End Class
```

Hasil Program :



2. Menghitung Luas dan Keliling Layang-layang

Source Code :

```
Public Class Form1
    Private Sub Label15_Click(sender As Object, e As EventArgs) Handles
Label15.Click

        End Sub

    Private Function HitungLuas(diagonal1 As Integer, diagonal2 As Integer)
As Integer
        Dim luas As Integer
        luas = (diagonal1 * diagonal2) / 2
        Return luas
    End Function

    Private Function HitungKeliling(sisi1 As Integer, sisi2 As Integer,
sisi3 As Integer, sisi4 As Integer) As Integer
        Dim keliling As Integer
        keliling = sisi1 + sisi2 + sisi3 + sisi4
        Return keliling
    End Function

    Private Sub btnHitung_Click(sender As Object, e As EventArgs) Handles
btnHitung.Click
        Dim diagonal1, diagonal2, sisi1, sisi2, sisi3, sisi4, luas, keliling
As Integer

        diagonal1 = txtDiagonal1.Text
        diagonal2 = txtDiagonal2.Text
        sisi1 = txtSisi1.Text
        sisi2 = txtSisi2.Text
        sisi3 = txtSisi3.Text
        sisi4 = txtSisi4.Text

        luas = HitungLuas(diagonal1, diagonal2)
        keliling = HitungKeliling(sisi1, sisi2, sisi3, sisi4)

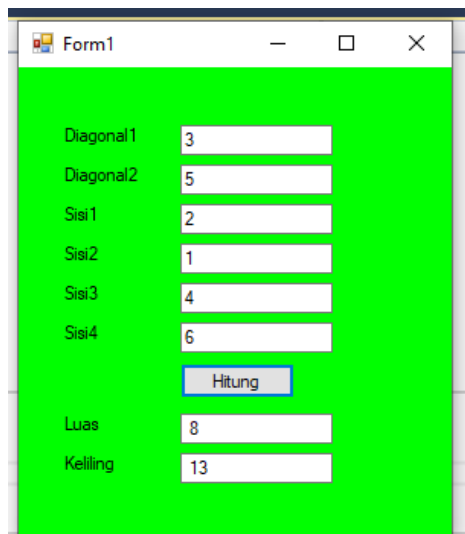
        txtLuas.Text = Str(luas)
```

```

txtKeliling.Text = Str(keliling)
End Sub
End Class

```

Hasil program :



Diagonal1	3
Diagonal2	5
Sisi1	2
Sisi2	1
Sisi3	4
Sisi4	6
Hitung	
Luas	8
Keliling	13

3. Menghitung Luas dan Keliling Lingkaran

Source Kode :

```

Public Class Form1

    Private Sub Label3_Click(sender As Object, e As EventArgs) Handles
Label3.Click

        End Sub

    Private Function HitungLuas(jarijari As Integer) As Integer
        Dim luas As Integer
        luas = 3.14 * jarijari * jarijari
        Return luas
    End Function

    Private Function HitungKeliling(jarijari As Integer) As Integer
        Dim keliling As Integer
        keliling = 2 * 3.14 * jarijari
        Return keliling
    End Function

    Private Sub btnHitung_Click(sender As Object, e As EventArgs) Handles
btnHitung.Click
        Dim jarijari, luas, keliling As Integer

        jarijari = txtJarijari.Text

        luas = HitungLuas(jarijari)

```

```

        keliling = HitungKeliling(jarijari)

        txtLuas.Text = Str(luas)
        txtKeliling.Text = Str(keliling)

    End Sub
End Class

```

Hasil Program :

4. Menghitung Luas dan Keliling Persegi Panjang

Source Kode :

```

Public Class Form1
    Private Sub Label15_Click(sender As Object, e As EventArgs) Handles
Label15.Click

        End Sub

    Private Function HitungLuas(panjang As Integer, lebar As Integer) As
Integer
        Dim luas As Integer
        luas = panjang * lebar
        Return luas
    End Function

    Private Function HitungKeliling(panjang As Integer, lebar As Integer) As
Integer
        Dim keliling As Integer
        keliling = 2 * (panjang + lebar)
        Return keliling
    End Function

```

```

Private Sub btnHitung_Click(sender As Object, e As EventArgs) Handles
btnHitung.Click
    Dim panjang, lebar, luas, keliling As Integer

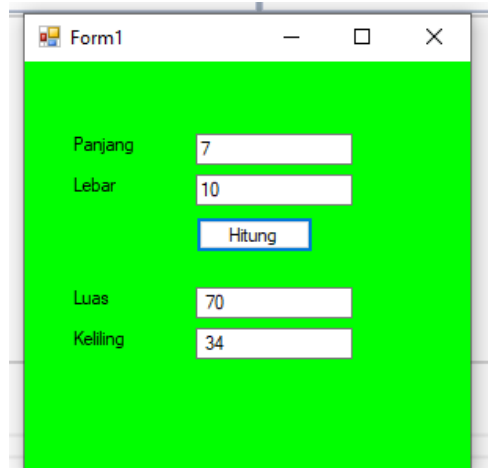
    panjang = txtPanjang.Text
    lebar = txtLebar.Text

    luas = HitungLuas(panjang, lebar)
    keliling = HitungKeliling(panjang, lebar)

    txtLuas.Text = Str(luas)
    txtKeliling.Text = Str(keliling)
End Sub
End Class

```

Hasil program :



The screenshot shows a Windows application window titled "Form1" with a green background. It contains the following elements:

- Input field "Panjang" with the value 7.
- Input field "Lebar" with the value 10.
- A button labeled "Hitung".
- Output field "Luas" with the value 70.
- Output field "Keliling" with the value 34.

5. Menghitung Luas dan Keliling Segitiga

Source Kode :

```

Public Class Form1

    Private Sub Label15_Click(sender As Object, e As EventArgs) Handles
Label15.Click

        End Sub

    Private Function HitungLuas(alas As Integer, tinggi As Integer) As
Integer
        Dim luas As Integer
        luas = 1 / 2 * alas * tinggi
        Return luas
    End Function

    Private Function HitungKeliling(sisi As Integer) As Integer

        Dim keliling As Integer
        keliling = sisi + sisi + sisi
        Return keliling
    End Function

```



```

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
Button1.Click
    Dim alas, tinggi, sisi, luas, keliling As Integer


    alas = txtAlas.Text
    tinggi = txtTinggi.Text
    sisi = txtSisi.Text

    luas = HitungLuas(alas, tinggi)
    keliling = HitungKeliling(sisi)

    txtLuas.Text = Str(luas)
    txtKeliling.Text = Str(keliling)
End Sub
End Class

```

Hasil program :



The screenshot shows a Windows application window titled "Form1". The window has a green background. It contains several text boxes and a button. The text boxes are labeled "Alas", "Tinggi", "Sisi", "Luas", and "Keliling". The values entered are 6, 10, 4, 30, and 12 respectively. A button labeled "Hitung" is positioned between the input boxes and the output boxes.

6. Menghitung Luas dan Volume Balok

Souce Kode :

```

Public Class Form1
    Private Sub Label15_Click(sender As Object, e As EventArgs) Handles
Label15.Click

        End Sub

    Private Function HitungLuas(panjang As Integer, lebar As Integer, tinggi
As Integer) As Integer

        Dim luas As Integer
        luas = 2 * (panjang * lebar + panjang * tinggi + lebar * tinggi)
        Return luas
    End Function

```

```

        Private Function HitungVolume(panjang As Integer, lebar As Integer,
tinggi As Integer) As Integer
        Dim volume As Integer
        volume = panjang * lebar * tinggi
        Return volume
    End Function

    Private Sub btnHitung_Click(sender As Object, e As EventArgs) Handles
btnHitung.Click
        Dim panjang, lebar, tinggi, luas, volume As Integer

        panjang = txtPanjang.Text
        lebar = txtLebar.Text
        tinggi = txtTinggi.Text

        luas = HitungLuas(panjang, lebar, tinggi)
        volume = HitungVolume(panjang, lebar, tinggi)

        txtLuas.Text = Str(luas)
        txtVolume.Text = Str(volume)
    End Sub
End Class

```

Hasil Program :

7. Menghitung Luas dan Volume Bola Source Kode :

```

Public Class Form1

    Private Sub Label14_Click(sender As Object, e As EventArgs) Handles
Label14.Click

    End Sub

    Private Function HitungLuas(jarijari As Integer) As Integer
        Dim luas As Integer
        luas = 4 * 3.14 * jarijari * jarijari
        Return luas
    End Function

    Private Function HitungVolume(jarijari As Integer) As Integer
        Dim Volume As Integer

```

```

        Volume = 3 / 4 * 3.14 * jarijari * jarijari * jarijari
    Return Volume
End Function

Private Sub btnHitung_Click(sender As Object, e As EventArgs) Handles
btnHitung.Click
    Dim jarijari, luas, volume As Integer

    jarijari = txtJarijari.Text

    luas = HitungLuas(jarijari)
    volume = HitungVolume(jarijari)

    txtLuas.Text = Str(luas)
    txtVolume.Text = Str(volume)
End Sub
End Class

```

Hasil Program :

The screenshot shows a Windows application window titled "Form1" with a green background. The window contains the text "Menghitung Luas Permukaan Volume Bola". It has three input fields: "Jarijari" with the value "10", "Luas" with the value "1256", and "Volume" with the value "2355". A "Hitung" button is located between the "Jarijari" and "Luas" fields.

8. Menghitung Luas dan Volume Kerucut

Source Kode :

```

Public Class Form1
    Private Sub Label1_Click(sender As Object, e As EventArgs) Handles
Label1.Click

End Sub

    Private Function HitungLuas(jarijari As Integer, sisimiringa As Integer)
As Integer
        Dim luas As Integer
        luas = 3.14 * jarijari * (jarijari + sisimiringa)
        Return luas
    End Function

    Private Function HitungVolume(jarijari As Integer, tinggi As Integer) As
Integer
        Dim volume As Integer
        volume = 1 / 3 * 3.14 * jarijari * jarijari * tinggi
    End Function
End Class

```

```

Return volume
End Function

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
btnHitung.Click
    Dim jarijari, tinggi, sisimiringa, luasp, volume As Integer

    jarijari = txtJarijari.Text
    tinggi = txtTinggi.Text
    sisimiringa = txtSisimiring.Text

    luasp = HitungLuas(jarijari, sisimiringa)
    volume = HitungVolume(jarijari, tinggi)

    txtLuas.Text = Str(luasp)
    txtVolume.Text = Str(volume)
End Sub
End Class

```

Hasil Program :

The screenshot shows a Windows application window titled "Form1" with a blue background. The window's title bar includes standard Windows controls (minimize, maximize, close). The main title of the application is "Menghitung Luas Permukaan Volume Kerucut". The interface contains three input fields for user data: "Jarijari" with the value 7, "Tinggi" with the value 10, and "Sisi Miring Apotema" with the value 9. A button labeled "Hitung" is positioned below these input fields. Below the button, there are two output fields: "Luas" displaying the value 352 and "Volume" displaying the value 513.

9. Menghitung Luas dan Volume Kubus

Souce kode :

```

Public Class Form1

    Private Sub Label1_Click(sender As Object, e As EventArgs) Handles
Label1.Click

    End Sub
    Private Function HitungLuas(sisi As Integer) As Integer
        Dim luas As Integer
        luas = 6 * sisi * sisi
        Return luas
    End Function

```

```

Private Function HitungVolume(sisi As Integer) As Integer
    Dim volume As Integer
    volume = sisi * sisi * sisi
    Return volume
End Function

Private Sub btnHitung_Click(sender As Object, e As EventArgs) Handles
btnHitung.Click
    Dim sisi, luas, volume As Integer

    sisi = Val(txtSisi.Text)

    luas = HitungLuas(sisi)
    volume = HitungVolume(sisi)

    txtLuas.Text = Str(luas)
    txtVolume.Text = Str(volume)

End Sub
End Class

```

Hasil Program :

10. Menghitung luas dan Volume Tabung

Source Kode :

```

Public Class Form1
    Private Sub Label4_Click(sender As Object, e As EventArgs) Handles
Label4.Click

        End Sub

    Private Function HitungLuas(jarijari As Integer, tinggi As Integer) As
Integer
        Dim luas As Integer
        luas = 2 * 3.14 * jarijari * (jarijari + tinggi)
        Return luas
    End Function

```

```

        Private Function HitungVolume(jarijari As Integer, tinggi As Integer) As
Integer
        Dim volume As Integer
        volume = 3.14 * jarijari * jarijari * tinggi
        Return volume
    End Function

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
btnHitung.Click
        Dim jarijari, tinggi, luasp, volume As Integer

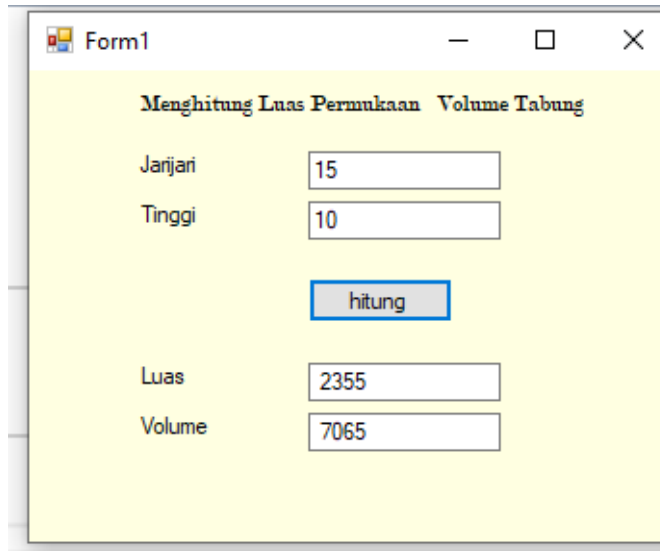
        jarijari = txtJarijari.Text
        tinggi = txtTinggi.Text

        luasp = HitungLuas(jarijari, tinggi)
        volume = HitungVolume(jarijari, tinggi)

        txtLuas.Text = Str(luasp)
        txtVolume.Text = Str(volume)
    End Sub
End Class

```

Hasil program :



The screenshot shows a Windows application window titled "Form1" with a yellow background. The window contains the following elements:

- Title Bar:** "Form1" with standard minimize, maximize, and close buttons.
- Header:** "Menghitung Luas Permukaan Volume Tabung" (Calculate Surface Area and Volume of a Cylinder).
- Input Fields:**
 - Jarijari:** Input field containing the value "15".
 - Tinggi:** Input field containing the value "10".
 - Luas:** Input field containing the calculated value "2355".
 - Volume:** Input field containing the calculated value "7065".
- Button:** A button labeled "hitung" (calculate) is located between the "Tinggi" and "Luas" input fields.