

# LAPORAN PRAKTIKUM

PEMROGRAMAN VISUAL

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Prepared By:

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# **LAPORAN PRAKTIKUM 3**

## **PEMROGRAMAN VISUAL**



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**2023**

## **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 Label5_Click(sender As Object, e As EventArgs) Handles
Label5.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 :**

The screenshot shows a Windows application window titled 'Form1'. Inside the window, there is a form with a blue background and the title 'Mengitung Luas Keliling Belahketupat'. The form has three input fields: 'Diagonal1' with the value 7, 'Diagonal2' with the value 5, and 'Sisi' with the value 2. Below the 'Sisi' field is a button labeled 'Hitung'. Below the button are two more input fields: 'Luas' with the value 18 and 'Keliling' with the value 8.

## 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 :**

### 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

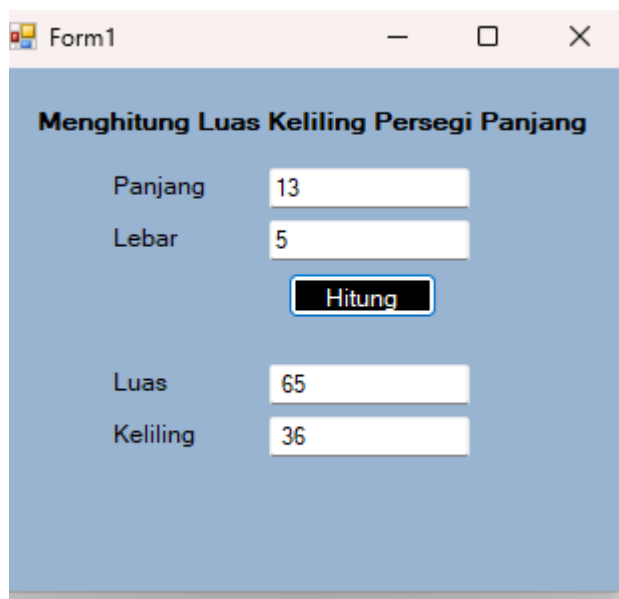
    panjang = txtPanjang.Text
    lebar = txtLebar.Text

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

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

```

### Hasil program :



### 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 :**

## 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

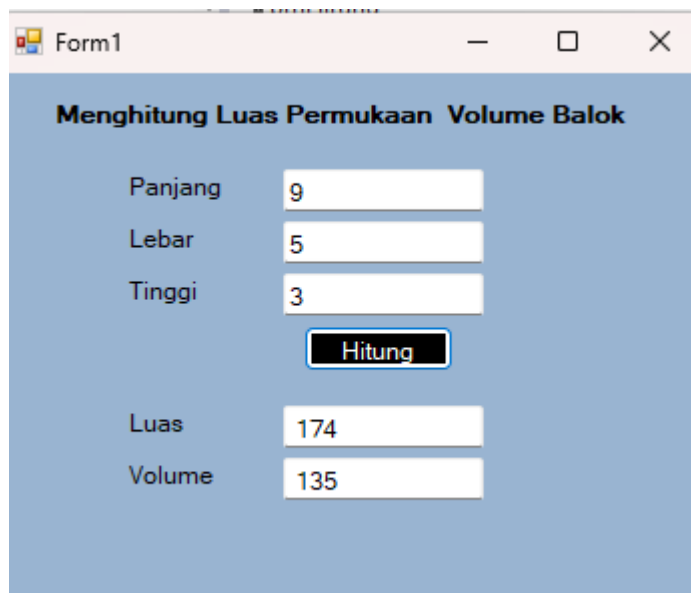
        panjang = txtPanjang.Text
        lebar = txtLebar.Text
        tinggi = txtTinggi.Text

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

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

```

### Hasil Program :



The screenshot shows a Windows application window titled "Form1". The window has a blue background and a title bar with standard Windows window controls. The main content area is titled "Menghitung Luas Permukaan Volume Balok". It contains five text input fields with labels to their left: "Panjang" (value: 9), "Lebar" (value: 5), "Tinggi" (value: 3), "Luas" (value: 174), and "Volume" (value: 135). A black button with the text "Hitung" is positioned between the input fields for length/width/height and the output fields for area and volume.

### 7. Menghitung Luas dan Volume Bola

#### 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) 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". The window has a blue background and contains the text "Menghitung Luas Permukaan Volume Bola". Below this, there are three input fields: "Jarijari" with the value "2", "Luas" with the value "50", and "Volume" with the value "19". A "Hitung" button is positioned 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
    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 :



Menghitung Luas Permukaan Volume Kerucut	
Jarijari	7
Tinggi	10
Sisi Miring Apotema	9
<b>Hitung</b>	
Luas	352
Volume	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 :

The screenshot shows a Windows application window titled "Form1". The window has a blue background and a title bar with standard Windows controls (minimize, maximize, close). The main content area is titled "Menghitung Luas Permukaan Volume Kubus". It contains three input fields: "Sisi" with the value "5", "Luas" with the value "150", and "Volume" with the value "125". A black button with the text "Hitung" is positioned between the "Sisi" and "Luas" fields.

### 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

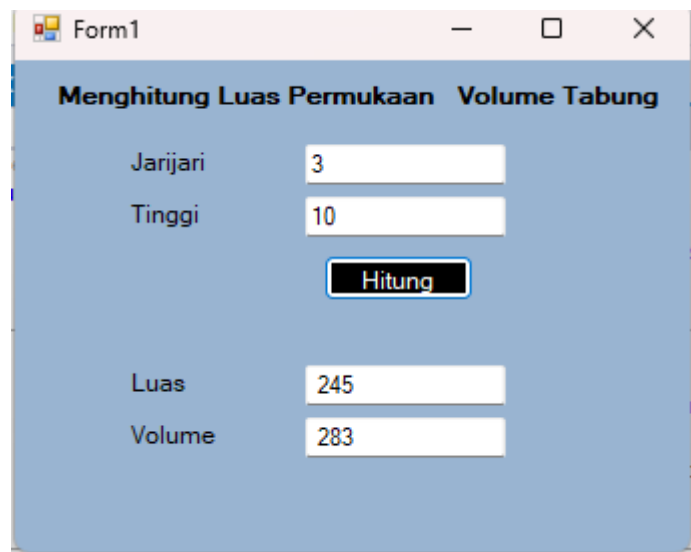
        jarijari = txtJarijari.Text
        tinggi = txtTinggi.Text

        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 blue background. The window contains a form titled "Menghitung Luas Permukaan Volume Tabung". The form has four input fields: "Jarijari" with the value "3", "Tinggi" with the value "10", "Luas" with the value "245", and "Volume" with the value "283". A button labeled "Hitung" is positioned between the input fields and the output fields.