# LAPORAN PRAKTIKUM



PEMROGRAMAN VISUAL

2023



Prepared By:

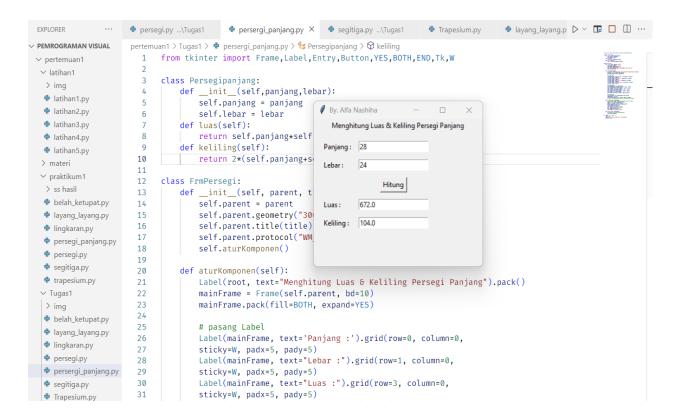
ALFA NASHIHA (200511007) 1120C

## 1. Persegi Panjang

```
Source Code:
from tkinter import Frame, Label, Entry, Button, YES, BOTH, END, Tk, W
class Persegipanjang:
    def __init__(self,panjang,lebar):
        self.panjang = panjang
        self.lebar = lebar
    def luas(self):
        return self.panjang*self.lebar
    def keliling(self):
        return 2*(self.panjang+self.lebar)
class FrmPersegi:
    def __init__(self, parent, title):
        self.parent = parent
        self.parent.geometry("300x250")
        self.parent.title(title)
        self.parent.protocol("WM DELETE WINDOW", self.onKeluar)
        self.aturKomponen()
    def aturKomponen(self):
        Label(root, text="Menghitung Luas & Keliling Persegi
Panjang").pack()
        mainFrame = Frame(self.parent, bd=10)
        mainFrame.pack(fill=BOTH, expand=YES)
        # pasang Label
        Label(mainFrame, text='Panjang:').grid(row=0, column=0,
        sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Lebar:").grid(row=1, column=0,
        sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Luas:").grid(row=3, column=0,
        sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Keliling:").grid(row=4, column=0,
        sticky=W, padx=5, pady=5)
```

```
# pasang textbox
        self.txtPanjang = Entry(mainFrame)
        self.txtPanjang.grid(row=0, column=1, padx=5, pady=5)
        self.txtLebar = Entry(mainFrame)
        self.txtLebar.grid(row=1, column=1, padx=5, pady=5)
        self.txtLuas = Entry(mainFrame)
        self.txtLuas.grid(row=3, column=1, padx=5, pady=5)
        self.txtKel = Entry(mainFrame)
        self.txtKel.grid(row=4, column=1, padx=5, pady=5)
        # Pasang Button
        self.btnHitung = Button(mainFrame, text='Hitung',
        command=self.onHitung)
        self.btnHitung.grid(row=2, column=1, padx=5, pady=5)
        # fungsi untuk menghitung luas dan keliling persegi panjang
    def onHitung(self, event=None):
        # perhitungan dengan metode Pemrograman Tidak Terstruktur
        panjang = float(self.txtPanjang.get())
        lebar = float(self.txtLebar.get())
        pesegi_panjang=Persegipanjang(panjang,lebar)
        luas = pesegi_panjang.luas()
        self.txtLuas.delete(0,END)
        self.txtLuas.insert(END.str(luas))
        kel = pesegi_panjang.keliling()
        self.txtKel.delete(0,END)
        self.txtKel.insert(END,str(kel))
   def onKeluar(self, event=None):
        # memberikan perintah menutup aplikasi
        self.parent.destroy()
if __name__ == '__main__':
    root = Tk()
    aplikasi = FrmPersegi(root, "By. Alfa Nashiha")
    root.mainloop()
```

# Hasil Program Persegi Panjang;

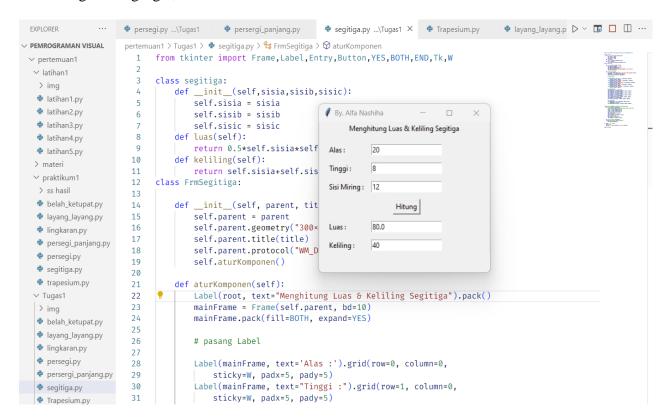


#### 2. Segitiga

```
Source Code:
from tkinter import Frame, Label, Entry, Button, YES, BOTH, END, Tk, W
class segitiga:
   def init (self,sisia,sisib,sisic):
        self.sisia = sisia
        self.sisib = sisib
        self.sisic = sisic
    def luas(self):
        return 0.5*self.sisia*self.sisib
    def keliling(self):
        return self.sisia+self.sisib+self.sisic
class FrmSegitiga:
   def init (self, parent, title):
        self.parent = parent
        self.parent.geometry("300x250")
        self.parent.title(title)
        self.parent.protocol("WM DELETE WINDOW", self.onKeluar)
        self.aturKomponen()
    def aturKomponen(self):
        Label(root, text="Menghitung Luas & Keliling Belah Ketupat").pack()
        mainFrame = Frame(self.parent, bd=10)
        mainFrame.pack(fill=BOTH, expand=YES)
        # pasang Label
        Label(mainFrame, text='Alas:').grid(row=0, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Tinggi:").grid(row=1, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Sisi Miring:").grid(row=2, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Luas:").grid(row=4, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Keliling:").grid(row=5, column=0,
            sticky=W, padx=5, pady=5)
```

```
# pasang textbox
        self.txtSisiA = Entry(mainFrame)
        self.txtSisiA .grid(row=0, column=1, padx=5, pady=5)
        self.txtSisiB = Entry(mainFrame)
        self.txtSisiB .grid(row=1, column=1, padx=5, pady=5)
        self.txtSisiC = Entry(mainFrame)
        self.txtSisiC .grid(row=2, column=1, padx=5, pady=5)
        self.txtLuasS = Entry(mainFrame)
        self.txtLuasS.grid(row=4, column=1, padx=5, pady=5)
        self.txtKel = Entry(mainFrame)
        self.txtKel.grid(row=5, column=1, padx=5, pady=5)
        # Pasang Button
        self.btnHitung = Button(mainFrame, text='Hitung',
            command=self.onHitung)
        self.btnHitung.grid(row=3, column=1, padx=5, pady=5)
# fungsi untuk menghitung luas dan keliling segitiga
    def onHitung(self, event=None):
        # perhitungan dengan metode Pemrograman Tidak Terstruktur
        sisia= int(self.txtSisiA.get())
        sisib= int(self.txtSisiB.get())
        sisic= int(self.txtSisiC.get())
        ks=segitiga(sisia,sisib,sisic)
        luas = ks.luas()
        self.txtLuasS.delete(0,END)
        self.txtLuasS.insert(END,str(luas))
        kel = ks.keliling()
        self.txtKel.delete(0,END)
        self.txtKel.insert(END,str(kel))
   def onKeluar(self, event=None):
    # memberikan perintah menutup aplikasi
        self.parent.destroy()
if __name__ == '__main__':
    root = Tk()
    aplikasi = FrmSegitiga(root, "By. Alfa Nashiha")
root.mainloop()
```

## Hasil Program Segitiga;



### 3. Persegi / Bujur Sangkar

```
Source Code:
from tkinter import Frame, Label, Entry, Button, YES, BOTH, END, Tk, W
class Persegi:
    def init (self,sisi):
        self.sisi = sisi
    def luas(self):
        return self.sisi**2
    def keliling(self):
        return 4*self.sisi
class FrmPersegi:
    def __init__(self, parent, title):
        self.parent = parent
        self.parent.geometry("300x200")
        self.parent.title(title)
        self.parent.protocol("WM_DELETE_WINDOW", self.onKeluar)
        self.aturKomponen()
    def aturKomponen(self):
        Label(root, text="Menghitung Luas & Keliling Belah Ketupat").pack()
        mainFrame = Frame(self.parent, bd=10)
        mainFrame.pack(fill=BOTH, expand=YES)
        # pasang Label
        Label(mainFrame, text="Sisi :").grid(row=2, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Luas:").grid(row=4, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Keliling:").grid(row=5, column=0,
            sticky=W, padx=5, pady=5)
        # pasang textbox
        self.txtSisi = Entry(mainFrame)
        self.txtSisi .grid(row=2, column=1, padx=5, pady=5)
        self.txtLuas = Entry(mainFrame)
        self.txtLuas.grid(row=4, column=1, padx=5, pady=5)
        self.txtKel = Entry(mainFrame)
        self.txtKel.grid(row=5, column=1, padx=5, pady=5)
```

```
# Pasang Button
        self.btnHitung = Button(mainFrame, text='Hitung',
            command=self.onHitung)
        self.btnHitung.grid(row=3, column=1, padx=5, pady=5)
# fungsi untuk menghitung luas dan keliling segitiga
    def onHitung(self, event=None):
        # perhitungan dengan metode Pemrograman Tidak Terstruktur
        SisiP= int(self.txtSisi.get())
        psg=Persegi(SisiP)
        luasP = psg.luas()
        self.txtLuas.delete(0,END)
        self.txtLuas.insert(END,str(luasP))
        kelilingP = psg.keliling()
        self.txtKel.delete(0,END)
        self.txtKel.insert(END,str(kelilingP))
   def onKeluar(self, event=None):
    # memberikan perintah menutup aplikasi
        self.parent.destroy()
if __name__ == '__main__':
    root = Tk()
   aplikasi = FrmPersegi(root, "By. Alfa Nashiha")
   root.mainloop()
```

# Hasil Program Persegi / Bujur Sangkar:

```
persegi.py ...\Tugas1 X
persergi_panjang.py
segitiga.py ...\Tugas1
Trapesium.py
                     pertemuan1 > Tugas1 > ♦ persegi.py > ♦ FrmPersegi > ♦ aturKomponen
V PEMROGRAMAN VISUAL
                       1 from tkinter import Frame, Label, Entry, Button, YES, BOTH, END, Tk, W
 ∨ pertemuan1

✓ latihan1

  > img
                            class Persegi:
  latihan1.py
                                def __init__(self,sisi):
  latihan2.py
                                   self.sisi = sisi
   latihan3.py
                                def luas(self):
                       8
                                return self.sisi**2
  latihan4.py
                                                                By. Alfa Nashiha
                                def keliling(self):
                       9
  latihan5.py
                                                                     Menghitung Luas & Keliling Persegi
                               return 4*self.sisi
                      10
  > materi
                      11
  ∨ praktikum1
                                                                     20
                           class FrmPersegi:
                      12
  > ss hasil
                      13
                                                                            Hitung
  belah_ketupat.py
                                def __init__(self, parent, tit
                                    self.parent = parent
                                                                       400
   layang_layang.py
                      15
                                                                Luas:
                                    self.parent.geometry("300>
                      16
   lingkaran.py
                                                                Keliling: 80
                                    self.parent.title(title)
                      17
   persegi_panjang.py
                      18
                                    self.parent.protocol("WM_[
   persegi.py
                      19
                                    self.aturKomponen()
   e segitiga.py
                      20
   trapesium.py
                                def aturKomponen(self):
                      21
                                    Label(root, text="Menghitung Luas & Keliling Persegi").pack()
  ∨ Tugas1
                      22
                      23
                                    mainFrame = Frame(self.parent, bd=10)
  > img
                                    mainFrame.pack(fill=BOTH, expand=YES)
   belah_ketupat.py
                      25
   layang_layang.py
                      26
                                    # pasang Label
   lingkaran.py
                      27
                                    Label(mainFrame, text="Sisi :").grid(row=2, column=0,
  persegi.py
                      28
                                        sticky=W, padx=5, pady=5)
   persergi_panjang.py
                      29
                                    Label(mainFrame, text="Luas:").grid(row=4, column=0,
   segitiga.py
                      30
                                       sticky=W, padx=5, pady=5)
                                    Label(mainFrame, text="Keliling:").grid(row=5, column=0,
                      31
  Trapesium.py
```

#### 4. Lingkaran

```
Source Code:
from tkinter import Frame, Label, Entry, Button, YES, BOTH, END, Tk, W
class lingkaran:
    def __init__(self,jari):
        self.jari = jari
    def luas(self):
        phi=3.14
        return phi* (self.jari**2)
    def keliling(self):
        phi=3.14
        return 2*phi*self.jari
class FrmLingkaran:
    def init (self, parent, title):
        self.parent = parent
        self.parent.geometry("300x200")
        self.parent.title(title)
        self.parent.protocol("WM DELETE WINDOW", self.onKeluar)
        self.aturKomponen()
    def aturKomponen(self):
        Label(root, text="Menghitung Luas & Keliling Belah Ketupat").pack()
        mainFrame = Frame(self.parent, bd=10)
        mainFrame.pack(fill=BOTH, expand=YES)
        # pasang Label
        Label(mainFrame, text='Jari-jari:').grid(row=0, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Luas :').grid(row=2, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Keliling:').grid(row=3, column=0,
            sticky=W, padx=5, pady=5)
        # pasang textbox
        self.txtJarijari = Entry(mainFrame)
        self.txtJarijari.grid(row=0, column=1, padx=5, pady=5)
        self.txtLuas = Entry(mainFrame)
        self.txtLuas.grid(row=2, column=1, padx=5, pady=5)
        self.txtKel= Entry(mainFrame)
        self.txtKel.grid(row=3, column=1, padx=5, pady=5)
```

```
# Pasang Button
        self.btnHitung = Button(mainFrame, text='Hitung',
            command=self.onHitung)
        self.btnHitung.grid(row=1, column=1, padx=5, pady=5)
# fungsi untuk menghitung luas dan keliling lingkaran
    def onHitung(self, event=None):
        # perhitungan dengan metode Pemrograman Tidak Terstruktur
        phi = 3.14
        jari= int(self.txtJarijari.get())
        kl=lingkaran(jari)
        luas = kl.luas()
        self.txtLuas.delete(0,END)
        self.txtLuas.insert(END,str(luas))
        kel = kl.keliling()
        self.txtKel.delete(0,END)
        self.txtKel.insert(END,str(kel))
    def onKeluar(self, event=None):
    # memberikan perintah menutup aplikasi
        self.parent.destroy()
if __name__ == '__main__':
    root = Tk()
    aplikasi = FrmLingkaran(root, "By. Alfa Nashiha")
    root.mainloop()
```

# Hasil Program Lingkaran;

```
🟓 belah_ketupat.py ...\Tugas1 💮 layang_layang.py ...\Tugas1 💛 🔽 🔲 🗀 🖽 🗀 🗀 🗀 😁 🗀 🗀 🗀 🖼 🚾 belah_ketupat.py ...\Tugas1 🗡 🐞 persegi.py ...\Tugas1 🔻
                       pertemuan1 > Tugas1 > ♦ lingkaran.py > 😝 FrmLingkaran > 🛇 aturKomponen

✓ PEMROGRAMAN VISUAL

                         1 from tkinter import Frame, Label, Entry, Button, YES, BOTH, END, Tk, W
 ∨ pertemuan1
  ∨ latihan1
                              class lingkaran:
   > img
                                  def __init__(self,jari):
  latihan1.py
                                       self.jari = jari
   latihan2.py
                                  def luas(self):
                          6
   latihan3.py
                                       phi=3.14
                                       return phi* (self.jari** ? # By. Alfa Nashiha
   latihan4.py
                         8
                         9
                                  def keliling(self):
   latihan5.py
                                                                        Menghitung Luas & Keliling Lingkaran
                         10
                                       phi=3.14
  > materi
                                       return 2*phi*self.jari
                         11
                                                                    Jari-jari: 12
  ∨ praktikum1
                        12
   > ss hasil
                              class FrmLingkaran:
                        13
                                                                                 Hitung
   belah_ketupat.py
                                                                            452.16
   layang_layang.py
                        15
                                   def __init__(self, parent, t:
                                       self.parent = parent
                        16
   lingkaran.py
                                                                    Keliling: 75.36
                                       self.parent.geometry("300
                        17
   persegi_panjang.py
                        18
                                       self.parent.title(title)
   persegi.py
                         19
                                       self.parent.protocol("WM
   e segitiga.py
                         20
                                       self.aturKomponen()
   trapesium.py
                        21

✓ Tugas1

                        22
                                   def aturKomponen(self):
  > img
                         23
                                       Label(root, text="Menghitung Luas & Keliling Lingkaran").pack()
                        24
                                       mainFrame = Frame(self.parent, bd=10)
   belah_ketupat.py
                        25
                                       mainFrame.pack(fill=BOTH, expand=YES)
   layang_layang.py
                        26
  lingkaran.py
                        27
                                       # pasang Label
   persegi.py
                         28
                                       Label(mainFrame, text='Jari-jari :').grid(row=0, column=0,
   persergi_panjang.py
                        29
                                           sticky=W, padx=5, pady=5)
   e segitiga.py
                         30
                                       Label(mainFrame, text='Luas :').grid(row=2, column=0,
                        31
                                          sticky=W, padx=5, pady=5)
  Trapesium.py
```

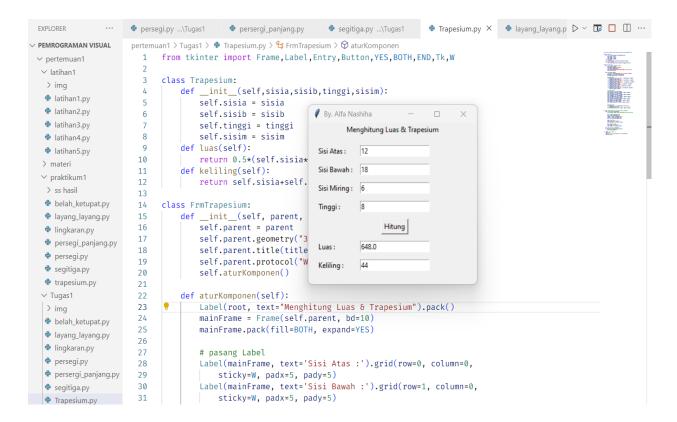
## 5. Trapesium

```
Source Code:
from tkinter import Frame, Label, Entry, Button, YES, BOTH, END, Tk, W
class Trapesium:
    def init (self,sisia,sisib,tinggi,sisim):
        self.sisia = sisia
        self.sisib = sisib
        self.tinggi = tinggi
        self.sisim = sisim
    def luas(self):
        return 0.5*(self.sisia*self.sisib)*self.tinggi
    def keliling(self):
        return self.sisia+self.sisib+self.tinggi+self.sisim
class FrmTrapesium:
    def init (self, parent, title):
        self.parent = parent
        self.parent.geometry("300x270")
        self.parent.title(title)
        self.parent.protocol("WM_DELETE_WINDOW", self.onKeluar)
        self.aturKomponen()
   def aturKomponen(self):
        Label(root, text="Menghitung Luas & Keliling Belah Ketupat").pack()
        mainFrame = Frame(self.parent, bd=10)
       mainFrame.pack(fill=BOTH, expand=YES)
        # pasang Label
        Label(mainFrame, text='Sisi Atas :').grid(row=0, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Sisi Bawah:').grid(row=1, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Sisi Miring:').grid(row=2, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Tinggi:').grid(row=3, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Luas:').grid(row=5, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Keliling:').grid(row=6, column=0,
            sticky=W, padx=5, pady=5)
```

```
self.txtSisiA = Entry(mainFrame)
        self.txtSisiA.grid(row=0, column=1, padx=5, pady=5)
        self.txtSisiB = Entry(mainFrame)
        self.txtSisiB.grid(row=1, column=1, padx=5, pady=5)
        self.txttinggi = Entry(mainFrame)
        self.txttinggi.grid(row=2, column=1, padx=5, pady=5)
        self.txtsisiM = Entry(mainFrame)
        self.txtsisiM.grid(row=3, column=1, padx=5, pady=5)
        self.txtLuas = Entry(mainFrame)
        self.txtLuas.grid(row=5, column=1, padx=5, pady=5)
        self.txtKel = Entry(mainFrame)
        self.txtKel.grid(row=6, column=1, padx=5, pady=5)
        # Pasang Button
        self.btnHitung = Button(mainFrame, text='Hitung',
            command=self.onHitung)
        self.btnHitung.grid(row=4, column=1, padx=5, pady=5)
# fungsi untuk menghitung luas dan keliling lingkaran
    def onHitung(self, event=None):
        # perhitungan dengan metode Pemrograman Tidak Terstruktur
        sA= int(self.txtSisiA.get())
        sB= int(self.txtSisiB.get())
        tinggi= int(self.txttinggi.get())
        sisim= int(self.txtsisiM.get())
        kt=Trapesium(sA,sB,tinggi,sisim)
        luas = kt.luas()
        self.txtLuas.delete(0,END)
        self.txtLuas.insert(END,str(luas))
        kel = kt.keliling()
        self.txtKel.delete(0,END)
        self.txtKel.insert(END,str(kel))
    def onKeluar(self, event=None):
    # memberikan perintah menutup aplikasi
        self.parent.destrov()
if __name__ == '__main__':
    root = Tk()
    aplikasi = FrmTrapesium(root, "By. Alfa Nashiha")
    root.mainloop()
```

# pasang textbox

# Hasil Program Trapesium:

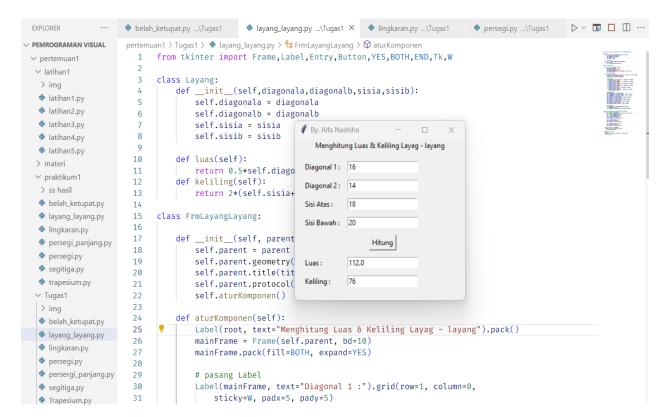


## 6. Layang-layang

```
Source Code:
from tkinter import Frame, Label, Entry, Button, YES, BOTH, END, Tk, W
class Layang:
    def __init__(self,diagonala,diagonalb,sisia,sisib):
        self.diagonala = diagonala
        self.diagonalb = diagonalb
        self.sisia = sisia
        self.sisib = sisib
    def luas(self):
        return 0.5*self.diagonala*self.diagonalb
    def keliling(self):
        return 2*(self.sisia+self.sisib)
class FrmLayangLayang:
    def __init__(self, parent, title):
        self.parent = parent
        self.parent.geometry("300x270")
        self.parent.title(title)
        self.parent.protocol("WM_DELETE_WINDOW", self.onKeluar)
        self.aturKomponen()
    def aturKomponen(self):
        Label(root, text="Menghitung Luas & Keliling Belah Ketupat").pack()
        mainFrame = Frame(self.parent, bd=10)
        mainFrame.pack(fill=BOTH, expand=YES)
        # pasang Label
        Label(mainFrame, text="Diagonal 1 :").grid(row=1, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Diagonal 2 :").grid(row=2, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Sisi Atas:").grid(row=3, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Sisi Bawah:").grid(row=4, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Luas:").grid(row=6, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text="Keliling:").grid(row=7, column=0,
            sticky=W, padx=5, pady=5)
```

```
# pasang textbox
        self.txtDiagonal1 = Entry(mainFrame)
        self.txtDiagonal1 .grid(row=1, column=1, padx=5, pady=5)
        self.txtDiagonal2 = Entry(mainFrame)
        self.txtDiagonal2 .grid(row=2, column=1, padx=5, pady=5)
        self.txtSisiA = Entry(mainFrame)
        self.txtSisiA .grid(row=3, column=1, padx=5, pady=5)
        self.txtSisiB = Entry(mainFrame)
        self.txtSisiB .grid(row=4, column=1, padx=5, pady=5)
        self.txtLuas = Entry(mainFrame)
        self.txtLuas.grid(row=6, column=1, padx=5, pady=5)
        self.txtKel= Entry(mainFrame)
        self.txtKel.grid(row=7, column=1, padx=5, pady=5)
        # Pasang Button
        self.btnHitung = Button(mainFrame, text='Hitung',
            command=self.onHitung)
        self.btnHitung.grid(row=5, column=1, padx=5, pady=5)
# fungsi untuk menghitung luas dan keliling segitiga
    def onHitung(self, event=None):
        # perhitungan dengan metode Pemrograman Tidak Terstruktur
        d1= int(self.txtDiagonal1.get())
        d2= int(self.txtDiagonal2.get())
        sa = int(self.txtSisiA.get())
        sb = int(self.txtSisiB.get())
        komponenlayang=Layang(d1,d2,sa,sb)
        luas = komponenlayang.luas()
        self.txtLuas.delete(0,END)
        self.txtLuas.insert(END,str(luas))
        kel = komponenlayang.keliling()
        self.txtKel.delete(0,END)
        self.txtKel.insert(END,str(kel))
   def onKeluar(self, event=None):
    # memberikan perintah menutup aplikasi
        self.parent.destroy()
if __name__ == '__main__':
    root = Tk()
    aplikasi = FrmLayangLayang(root, "By. Alfa Nashiha")
    root.mainloop()
```

## Hasil Program Layang-layang:



### 7. Belah Ketupat

```
Source Code:
from tkinter import Frame, Label, Entry, Button, YES, BOTH, END, Tk, W
class BelahK:
    def init (self,diagonala,diagonalb,sisi):
        self.diagonala = diagonala
        self.diagonalb = diagonalb
        self.sisi = sisi
    def luas(self):
        return 0.5*self.diagonala*self.diagonalb
    def keliling(self):
        return 4*self.sisi
class FrmBelahketupat:
    def init (self, parent, title):
        self.parent = parent
        self.parent.geometry("300x250")
        self.parent.title(title)
        self.parent.protocol("WM DELETE WINDOW", self.onKeluar)
        self.aturKomponen()
    def aturKomponen(self):
        Label(root, text="Menghitung Luas & Keliling Belah Ketupat").pack()
        mainFrame = Frame(self.parent, bd=10)
        mainFrame.pack(fill=BOTH, expand=YES)
        # pasang Label
        Label(mainFrame, text='Diagonal 1 :').grid(row=0, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Diagonal 2 :').grid(row=1, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Sisi:').grid(row=2, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Luas:').grid(row=4, column=0,
            sticky=W, padx=5, pady=5)
        Label(mainFrame, text='Keliling:').grid(row=5, column=0,
            sticky=W, padx=5, pady=5)
        # pasang textbox
        self.txtDiagonal1 = Entry(mainFrame)
        self.txtDiagonal1.grid(row=0, column=1, padx=5, pady=5)
        self.txtDiagonal2 = Entry(mainFrame)
        self.txtDiagonal2.grid(row=1, column=1, padx=5, pady=5)
        self.txtSisi = Entry(mainFrame)
```

```
self.txtSisi.grid(row=2, column=1, padx=5, pady=5)
        self.txtLuas = Entry(mainFrame)
        self.txtLuas.grid(row=4, column=1, padx=5, pady=5)
        self.txtKel = Entry(mainFrame)
        self.txtKel.grid(row=5, column=1, padx=5, pady=5)
        # Pasang Button
        self.btnHitung = Button(mainFrame, text='Hitung',
            command=self.onHitung)
        self.btnHitung.grid(row=3, column=1, padx=5, pady=5)
# fungsi untuk menghitung luas dan keliling lingkaran
    def onHitung(self, event=None):
        # perhitungan dengan metode Pemrograman Tidak Terstruktur
        d1= int(self.txtDiagonal1.get())
        d2= int(self.txtDiagonal2.get())
        sisi= int(self.txtSisi.get())
        komponenbelah= BelahK(d1,d2,sisi)
        luas = komponenbelah.luas()
        self.txtLuas.delete(0,END)
        self.txtLuas.insert(END,str(luas))
        kel = komponenbelah.keliling()
        self.txtKel.delete(0,END)
        self.txtKel.insert(END,str(kel))
   def onKeluar(self, event=None):
    # memberikan perintah menutup aplikasi
        self.parent.destroy()
if __name__ == '__main__':
    root = Tk()
    aplikasi = FrmBelahketupat(root, "By. Alfa Nashiha")
    root.mainloop()
```

## Hasil Program Belah Ketupat;

