

**PRAKTIKUM ALGORITMA DAN PEMROGRAMAN**  
**TOPIK LANJUT (PROGRAM GUI)**



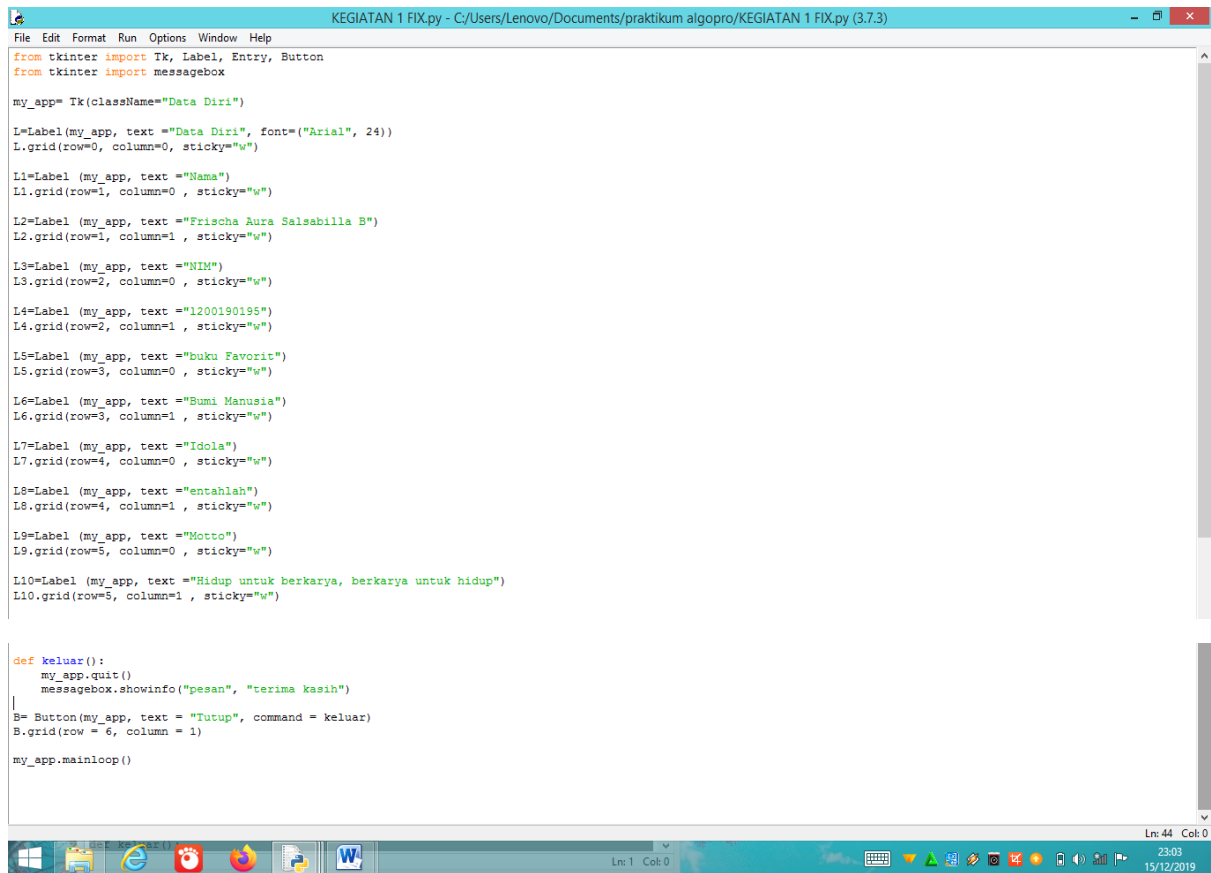
**DISUSUN OLEH:**

**NAMA : Frischa Aura Salsabilla B**  
**NIM : L200190195**

**PRODI INFORMATIKA**  
**FAKULTAS KOMUNIKASI DAN INFORMATIKA**  
**UNIVERSITAS MUHAMMADIYAH SURAKARTA**  
**2019/2020**

## Kegiatan 1

Screenshoots dari aplikasi Data Diri adalah sebagai berikut:



```
KEGIATAN 1 FIX.py - C:/Users/Lenovo/Documents/praktikum algopro/KEGIATAN 1 FIX.py (3.7.3)
File Edit Format Run Options Window Help
from tkinter import Tk, Label, Entry, Button
from tkinter import messagebox

my_app= Tk(className="Data Diri")

L=Label(my_app, text ="Data Diri", font=("Arial", 24))
L.grid(row=0, column=0, sticky="w")

L1=Label (my_app, text ="Nama")
L1.grid(row=1, column=0 , sticky="w")

L2=Label (my_app, text ="Frischa Aura Salsabilla B")
L2.grid(row=1, column=1 , sticky="w")

L3=Label (my_app, text ="NIM")
L3.grid(row=2, column=0 , sticky="w")

L4=Label (my_app, text ="1200190195")
L4.grid(row=2, column=1 , sticky="w")

L5=Label (my_app, text ="buku Favorit")
L5.grid(row=3, column=0 , sticky="w")

L6=Label (my_app, text ="Bumi Manusia")
L6.grid(row=3, column=1 , sticky="w")

L7=Label (my_app, text ="Idola")
L7.grid(row=4, column=0 , sticky="w")

L8=Label (my_app, text ="entahlah")
L8.grid(row=4, column=1 , sticky="w")

L9=Label (my_app, text ="Motto")
L9.grid(row=5, column=0 , sticky="w")

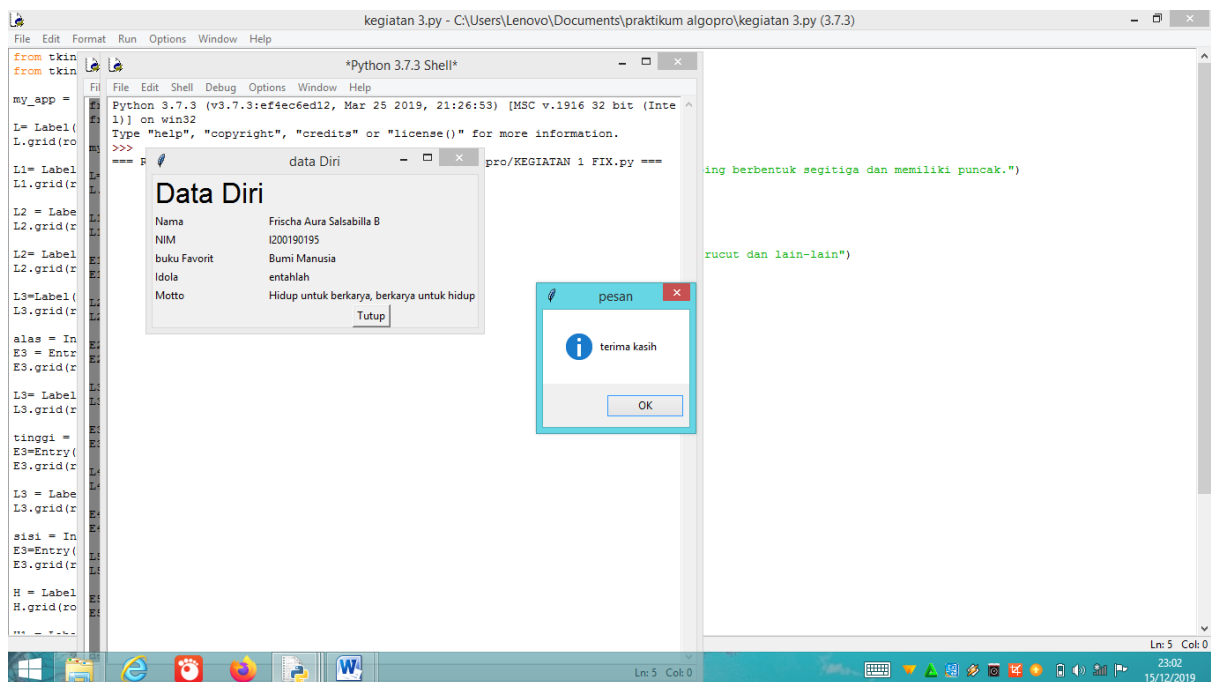
L10=Label (my_app, text ="Hidup untuk berkarya, berkarya untuk hidup")
L10.grid(row=5, column=1 , sticky="w")

def keluar():
    my_app.quit()
    messagebox.showinfo("pesan", "terima kasih")
|
B= Button(my_app, text = "Tutup", command = keluar)
B.grid(row = 6, column = 1)

my_app.mainloop()

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```

Hasil:



## Kegiatan 2

Screenshoots dari kalkulator sederhana adalah sebagai berikut

```
File Edit Format Run Options Window Help
from tkinter import Tk, Label, Entry, Button, IntVar
from tkinter import messagebox

my_app = Tk(className= "Kalkulator Sederhana")

L1= Label(my_app, text= "Angka 1")
L1.grid(row=0, column= 0 , sticky="w")

angka1=IntVar()
E=Entry(my_app, textvariable= angka1)
E.grid(row=0, column=1, columnspan=3)

L1= Label(my_app, text= "Angka 2")
L1.grid(row=1, column=0, sticky="w")

angka2= IntVar()
E1=Entry(my_app, textvariable= angka2)
E1.grid(row= 1, column=1, columnspan=3)

H= Label(my_app, text= "Hasil")
H.grid(row=3, column=0, sticky="w")

H1= Label (my_app)
H1.grid(row=3, column=2, sticky="w")

def Hitung(op):
    if op == '+':
        hasil= angka1.get()+angka2.get()
    elif op== '-':
        hasil= angka1.get()-angka2.get()
    elif op == 'x':
        hasil = angka1.get()*angka2.get()
    elif op==':':
        hasil = angka1.get()/angka2.get()

    H1.config(text= hasil)

B1 = Button(my_app, text= "+", width="8", command = lambda:Hitung('+'))
B1.grid(row=2, column=0)

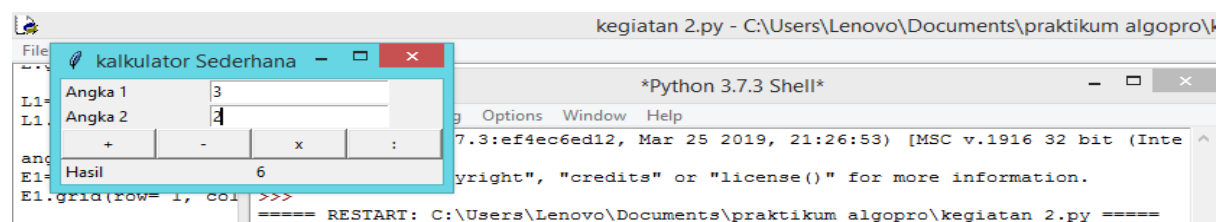
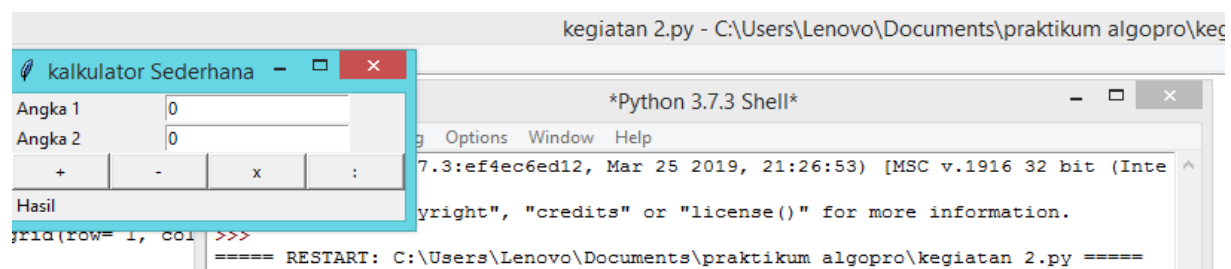
B2 = Button(my_app, text= "-", width="8", command = lambda:Hitung('-'))
B2.grid(row=2, column=1)

B3 = Button(my_app, text= "x", width="8", command = lambda:Hitung('x'))
B3.grid(row=2, column=2)

B4 = Button(my_app, text= ":", width="8", command = lambda:Hitung(':'))
B4.grid(row=2, column=3)

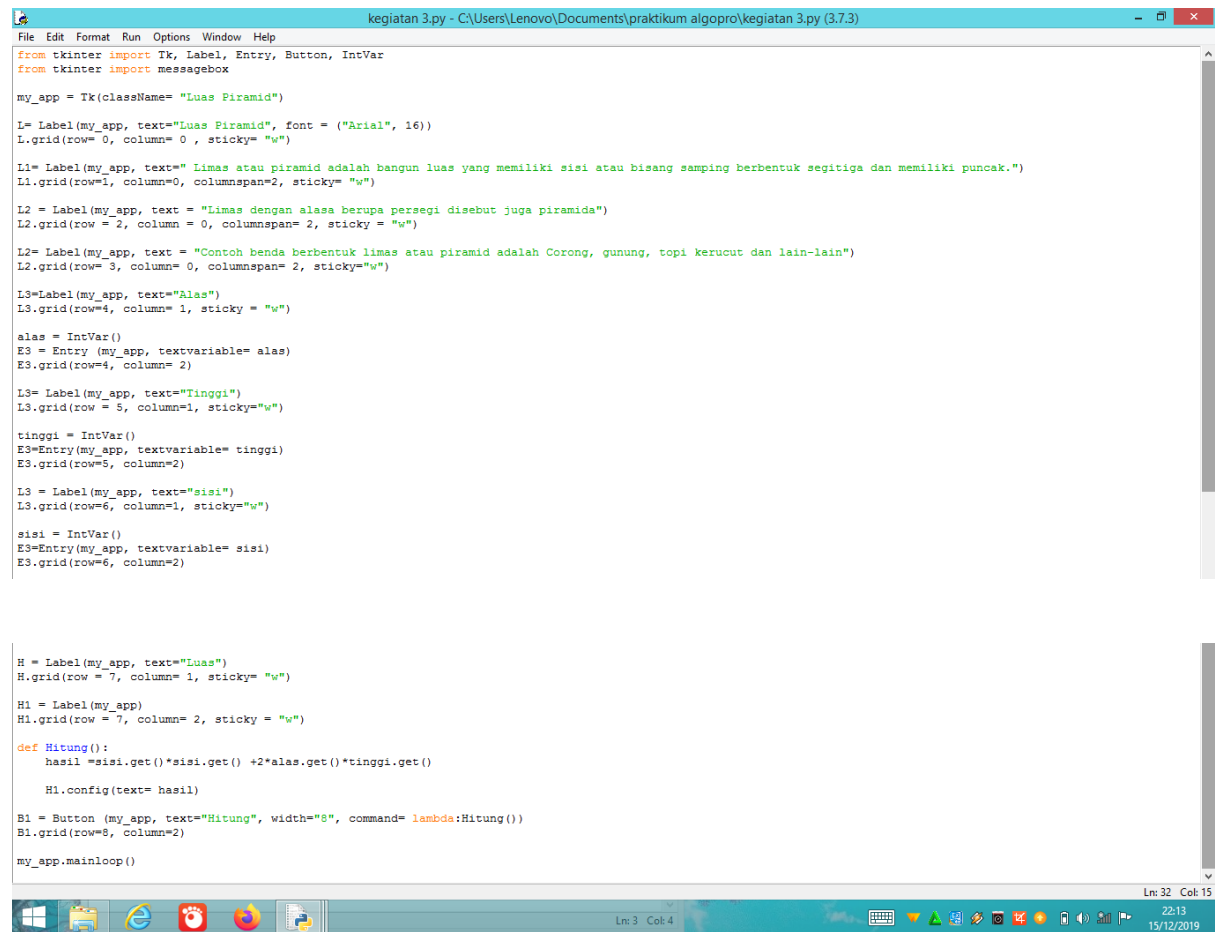
my_app.mainloop()
```

Hasil:



### Kegiatan 3.

Screenshoots dari aplikasi Bangun Geometri adalah sebagai berikut:



```
File Edit Format Run Options Window Help
from tkinter import Tk, Label, Entry, Button, IntVar
from tkinter import messagebox

my_app = Tk(className= "Luas Piramid")

L= Label(my_app, text="Luas Piramid", font = ("Arial", 16))
L.grid(row=0, column= 0 , sticky= "w")

L1= Label(my_app, text=" Limas atau piramid adalah bangun luas yang memiliki sisi atau bisang samping berbentuk segitiga dan memiliki puncak.")
L1.grid(row=1, column=0, columnspan=2, sticky= "w")

L2 = Label(my_app, text = "Limas dengan alasa berupa persegi disebut juga piramida")
L2.grid(row=2, column= 0, columnspan= 2, sticky = "w")

L2= Label(my_app, text = "Contoh benda berbentuk limas atau piramid adalah Corong, gunung, topi kerucut dan lain-lain")
L2.grid(row= 3, column= 0, columnspan= 2, sticky="w")

L3=Label(my_app, text="Alas")
L3.grid(row=4, column= 1, sticky = "w")

alas = IntVar()
E3 = Entry (my_app, textvariable= alas)
E3.grid(row=4, column= 2)

L3= Label(my_app, text="Tinggi")
L3.grid(row = 5, column=1, sticky="w")

tinggi = IntVar()
E3=Entry(my_app, textvariable= tinggi)
E3.grid(row=5, column=2)

L3 = Label(my_app, text="sisi")
L3.grid(row=6, column=1, sticky="w")

sisi = IntVar()
E3=Entry(my_app, textvariable= sisi)
E3.grid(row=6, column=2)

H = Label(my_app, text="Luas")
H.grid(row = 7, column= 1, sticky= "w")

H1 = Label(my_app)
H1.grid(row =7, column= 2, sticky = "w")

def Hitung():
    hasil =sisi.get()*sisi.get() +2*alas.get()*tinggi.get()

    H1.config(text= hasil)

B1 = Button (my_app, text="Hitung", width="8", command= lambda:Hitung())
B1.grid(row=8, Column=2)

my_app.mainloop()
```

Ln: 32 Col: 15  
Ln: 3 Col: 4  
22:13  
15/12/2019

Hasil :

