

PRAKTIKUM ALGORITMA
BAB TOPIK LANJUT (PROGRAM GUI)



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PRODI INFORMATIKA

FAKULTAS ILMU KOMUNIKASI DAN INFORMATIKA

UNIVERSITAS MUHAMMADIYAH SURAKARTA TAHUN 2019

Kegiatan 1.

```
1.py - D:\LM Tugas\Praktek AlgoPro\praktikum 11\1.py (3.8.0)
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="Labib Majid")
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="I200190174")
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="Rembulan tenggelam diwajahmu")
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="Nabi Muhammad SAW")
L8.grid(row = 4, column =1, sticky="w")

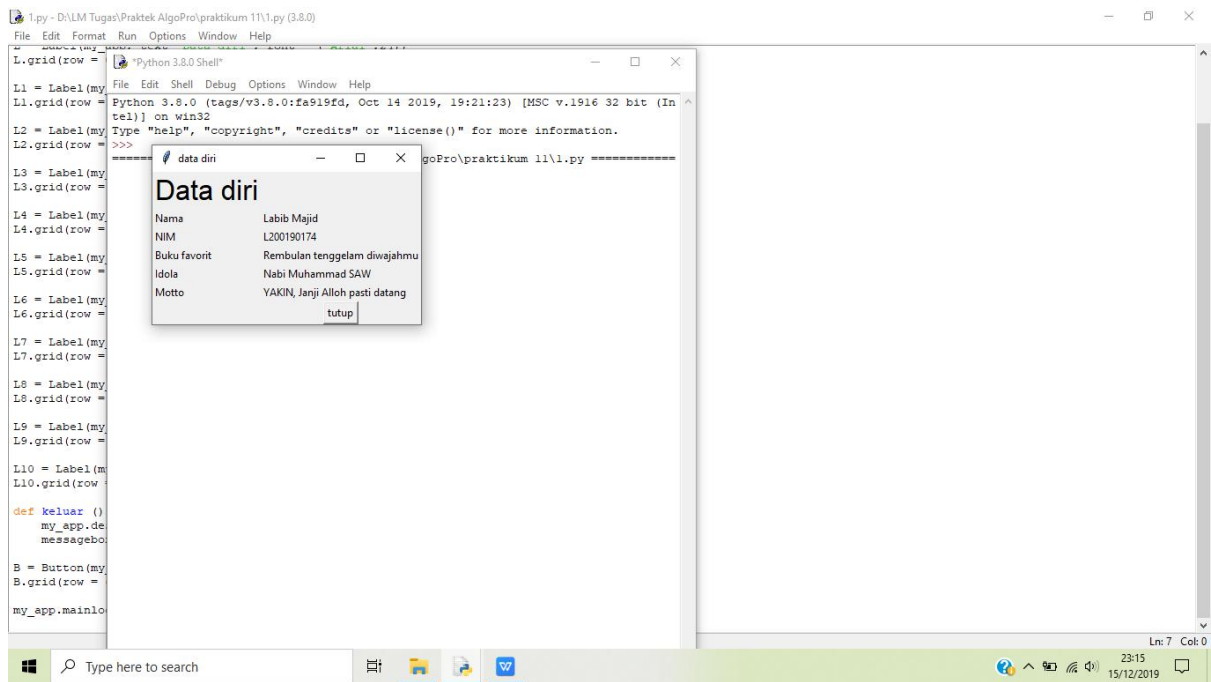
L9 = Label(my_app, text="Motto")
L9.grid(row = 5, column =0, sticky="w")

L10 = Label(my_app, text="YAKIN, Janji Allah pasti datang")
L10.grid(row = 5, column =1, sticky="w")

def keluar ():
    my_app.destroy()
    messagebox.showinfo("pesan", "Terimam kasih.")

B = Button(my_app, text = "tutup", command = keluar)
B.grid(row = 6, column =1)

my_app.mainloop()
```



Kegiatan 2.

2.py - D:\LM Tugas\Praktek AlgoPro\praktikum 11\2.py (3.8.0)

```
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")

L = Label(my_app, text="Angka 1")
L.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('-'))
```

Ln: 1 Col: 0

```
2.py - D:\LM Tugas\Praktek AlgoPro\praktikum 11\2.py (3.8.0)
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")

L = Label(my_app, text="Angka 1")
L.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)

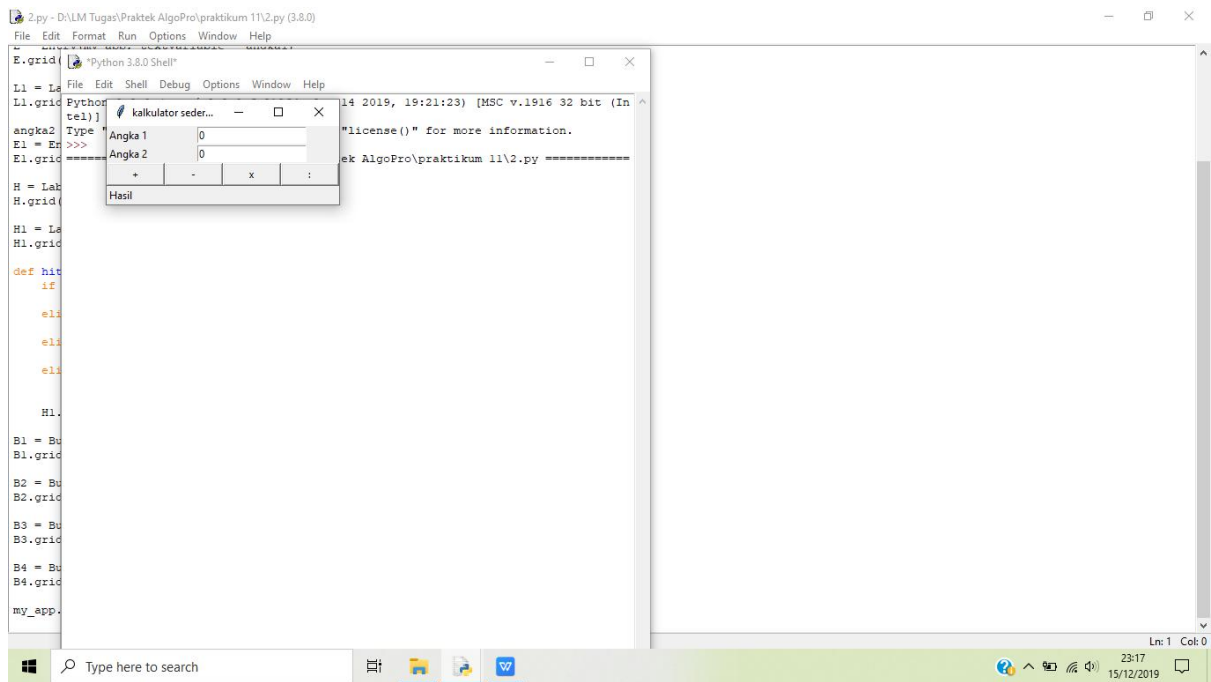
B2 = Button(my_app, text = "-", width="8", command = lambda: hitung('-'))
B2.grid(row = 2, column = 1)

B3 = Button(my_app, text = "x", width="8", command = lambda: hitung('*'))
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()
```

Ln: 1 Col: 0



Kegiatan 3.

```
3.py - D:\LM Tugas\Praktek AlgoPro\praktikum 11\3.py (3.8.0)
File Edit Format Run Options Window Help
from tkinter import Tk, Label, Entry, Button, IntVar
from tkinter import messagebox

my_app = Tk(className = "luas persegi")

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

L1 = Label(my_app, text = "persegi adalah bangun ruang yang mempunyai empat sudut")
L1.grid(row = 1, column = 0, columnspan = 2, sticky="w")

L2 = Label(my_app, text = "persegi dibentuk oleh empat buah rusuk yang sama panjang")
L2.grid(row = 2, column = 0, columnspan = 2, sticky="w")

L3 = Label(my_app, text = "contoh benda dengan bangun persegi adalah meja belajar,leptop")
L3.grid(row = 3, column = 0, columnspan = 2, sticky="w")

L4 = Label(my_app, text = "sisi")
L4.grid(row = 4, column = 1, sticky = "w")

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

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

H1 = Label(my_app)
H1.grid(row = 5, column = 2, sticky="w")

def hitung():
    hasil = sisi*sisi
    H1.config(text = hasil)

B1 = Button(my_app, text = "hitung", width="8", command = lambda:Hitung())
B1.grid(row = 6, column = 2)

my_app.mainloop()
```

luas persegi

persegi adalah bangun ruang yang mempunyai empat sudut

persegi dibentuk oleh empat buah rusuk yang sama panjang

contoh benda dengan bangun persegi adalah meja belajar,leptop

sisi 0

Luas

hitung