PRAKTIKUM ALGORITMA DAN PEMROGRAMAN TOPIK LANJUT (PROGRAM GUI)



DISUSUN OLEH:

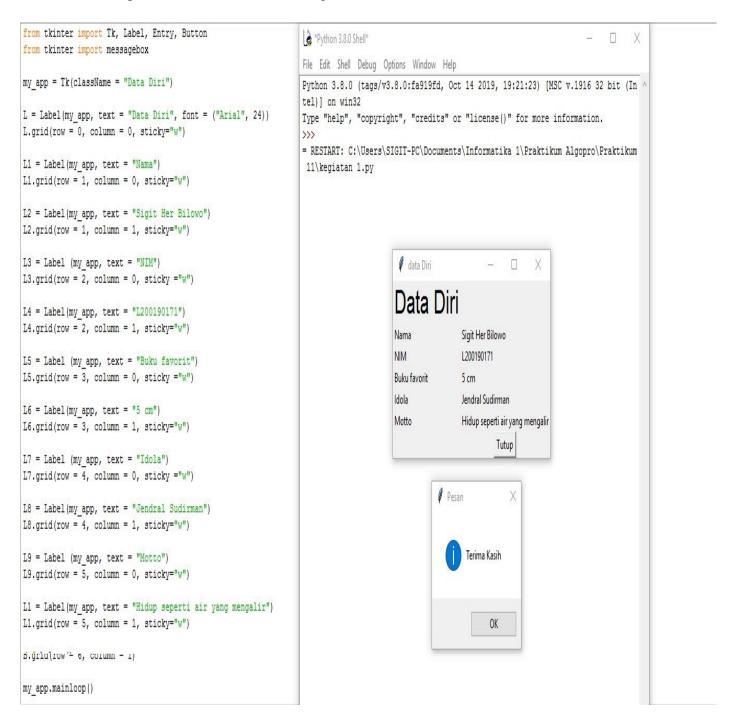
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Kegiatan 1. Menampilkan data diri

Screenshot dari aplikasi Data Diria adalah sebagai berikut.



Kegiatan 2. Membuat kalkulator sederhana

Screenshot dari kalkulator sederhana adalah sebagai berikut

```
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 = angkal)
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 = angkal.get()+angka2.get()
   elif op == '-':
       hasil = angkal.get()-angka2.get()
    elif op == 'x':
       hasil = angkal.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()
```



Kegiatan 3. Menghitung luas bangun geometri

Screenshot dari aplikasi Bangun Geometri adalah sebagai berikut

```
from tkinter import Tk, Label, Entry, Button, IntVar
from tkinter import messagebox
my app = Tk(className = "Luas Segitiga")
L = Label(my app, text = "Luas Segitiga", font = ("Arial", 16))
L.grid(row = 0, column = 0, sticky="w")
L1 = Label(my app, text = "Segitiga dibentuk dari tiga sisi yang berupa garis lurus dan tiga sudut.")
L1.grid(row = 1, column = 0, columnspan = 2, sticky="w")
L2 = Label(my app, text = "Segitiga adalah bangun datar dua dimensi.")
L2.grid(row = 2, column = 0, columnspan = 2, sticky="w")
L2 = Label(my app, text = "Contoh benda berbentuk segitiga adalah ujung tombak, ujung anak panah, klip kertas, asbak, layar perahu 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)
H = Label(my app, text = "Luas")
H.grid(row = 6, column = 1, sticky="w")
H1 = Label(my app)
H1.grid(row = 6, column = 2, sticky="w")
def Hitung():
   hasil = 0.5*alas.get()*tinggi.get()
   H1.config(text = hasil)
B1 = Button(my app, text = "Hitung", width="8", command = lambda: Hitung())
B1.grid(row = 7, column = 2)
my app.mainloop()
```

