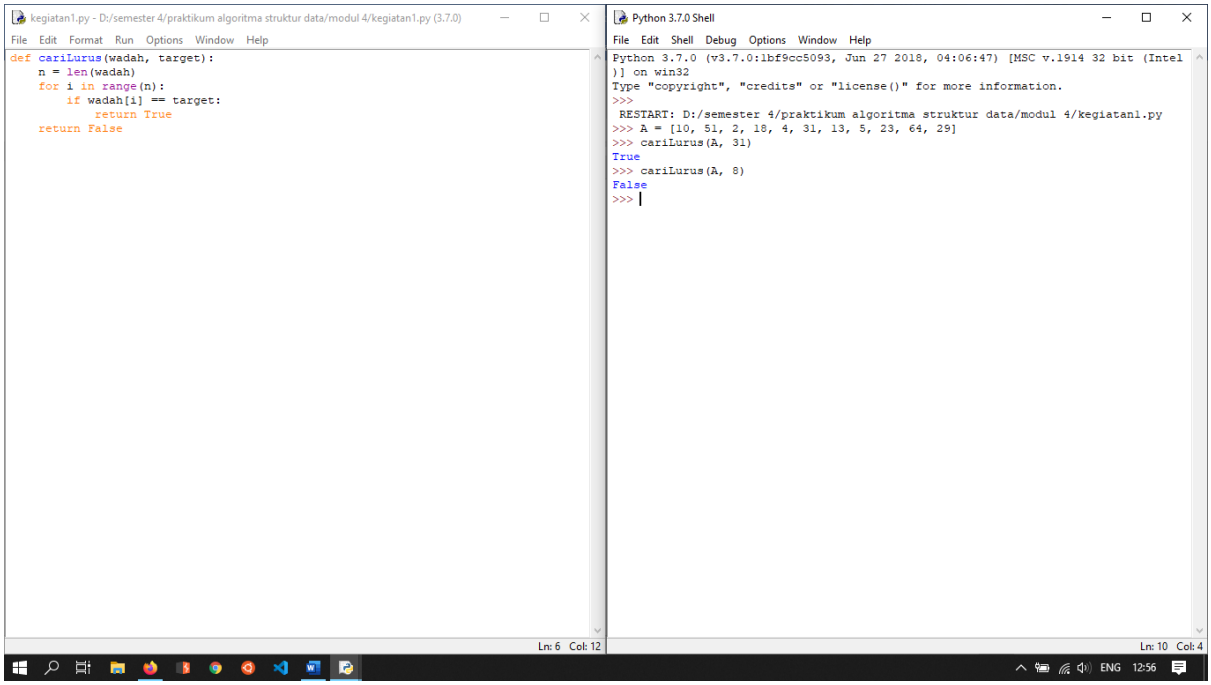
Nama : Maulana Alhif Ikhsan

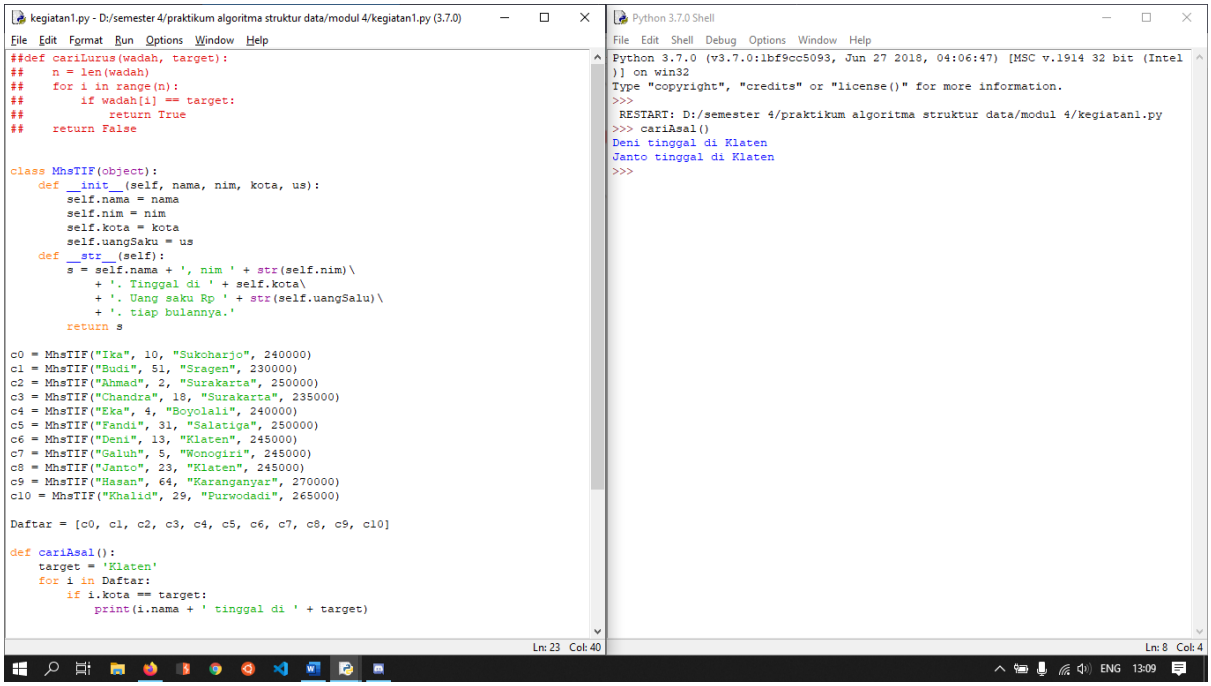
NIM : L200180120

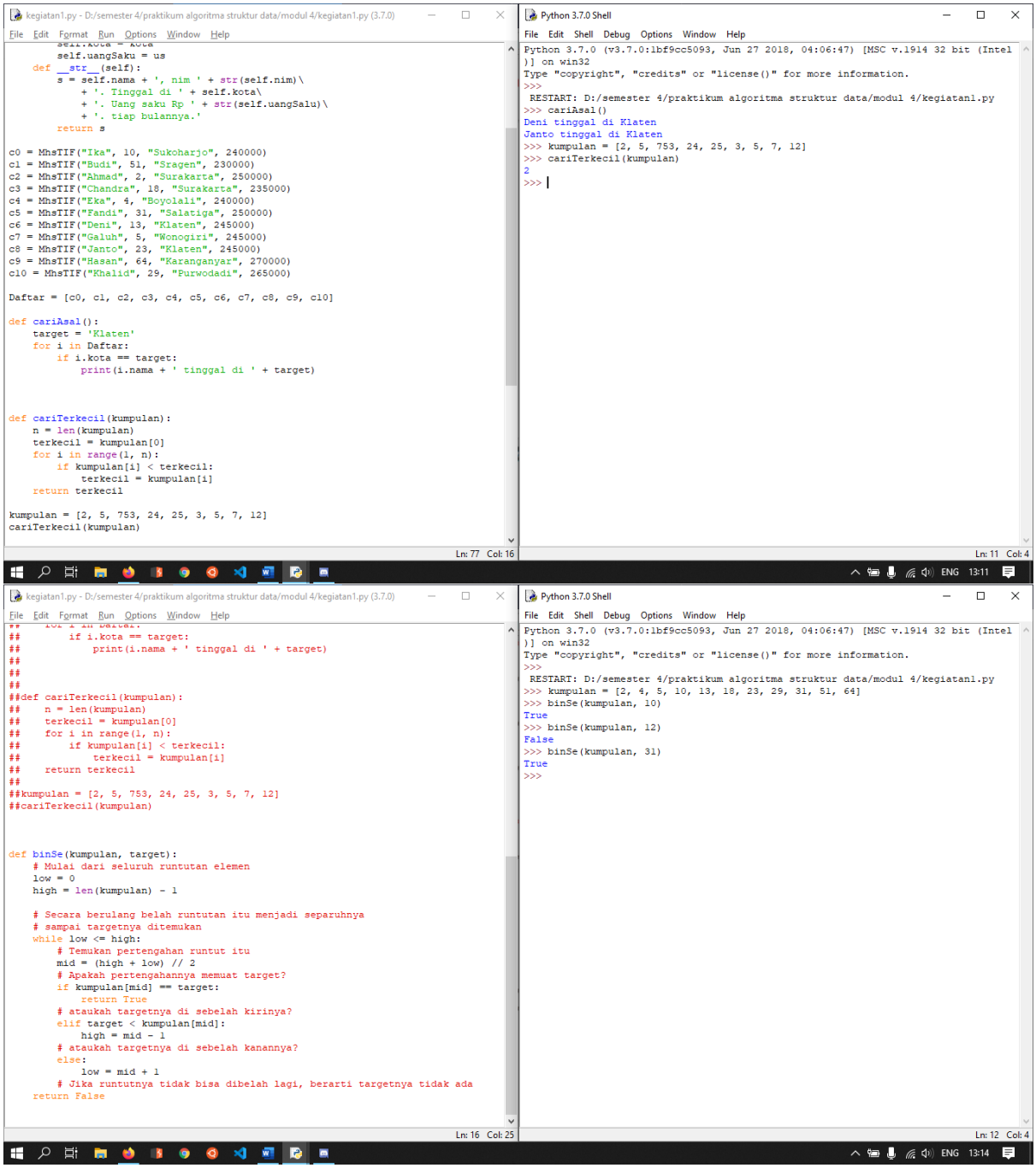
Kelas : E

Modul 4

Kegiatan




kegiatan1.py - D:/semester 4/praktikum algoritma struktur data/modul 4/kegiatan1.py (3.7.0)
File Edit Format Run Options Window Help
##def cariLurus(wadah, target):
n = len(wadah)
for i in range(n):
if wadah[i] == target:
return True
return False
class MhsTIF(object):
def __init__(self, nama, nim, kota, us):
self.nama = nama
self.nim = nim
self.kota = kota
self.uangSaku = us
def __str__(self):
s = self.nama + ', nim ' + str(self.nim)\
+ '. Tinggal di ' + self.kota\
+ '. Uang saku Rp ' + str(self.uangSalu)\
+ '. tiap bulannya.'
return s
c0 = MhsTIF("Ika", 10, "Sukoharjo", 240000)
c1 = MhsTIF("Budi", 51, "Sragen", 230000)
c2 = MhsTIF("Ahmad", 2, "Surakarta", 250000)
c3 = MhsTIF("Chandra", 18, "Surakarta", 235000)
c4 = MhsTIF("Eka", 4, "Boyolali", 240000)
c5 = MhsTIF("Fandi", 31, "Salatiga", 250000)
c6 = MhsTIF("Deni", 13, "Klaten", 245000)
c7 = MhsTIF("Galuh", 5, "Wonogiri", 245000)
c8 = MhsTIF("Janto", 23, "Klaten", 245000)
c9 = MhsTIF("Hasan", 64, "Karanganyar", 270000)
c10 = MhsTIF("Khalid", 29, "Purwodadi", 265000)
Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]
def cariAsal():
target = 'Klaten'
for i in Daftar:
if i.kota == target:
print(i.nama + ' tinggal di ' + target)
Ln: 23 Col: 40
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:/semester 4/praktikum algoritma struktur data/modul 4/kegiatan1.py
>>> cariAsal()
Deni tinggal di Klaten
Janto tinggal di Klaten
>>>
Ln: 8 Col: 4
ENG 13:09


kegiatan1.py - D:/semester 4/praktikum algoritma struktur data/modul 4/kegiatan1.py (3.7.0)
File Edit Format Run Options Window Help
self.kota = kota
self.uangSaku = us
def __str__(self):
s = self.nama + ', nim ' + str(self.nim)\
+ '. Tinggal di ' + self.kota\
+ '. Uang saku Rp ' + str(self.uangSalu)\
+ '. tiap bulannya.'
return s
c0 = MhsTIF("Ika", 10, "Sukoharjo", 240000)
c1 = MhsTIF("Budi", 51, "Sragen", 230000)
c2 = MhsTIF("Ahmad", 2, "Surakarta", 250000)
c3 = MhsTIF("Chandra", 18, "Surakarta", 235000)
c4 = MhsTIF("Eka", 4, "Boyolali", 240000)
c5 = MhsTIF("Fandi", 31, "Salatiga", 250000)
c6 = MhsTIF("Deni", 13, "Klaten", 245000)
c7 = MhsTIF("Galuh", 5, "Wonogiri", 245000)
c8 = MhsTIF("Janto", 23, "Klaten", 245000)
c9 = MhsTIF("Hasan", 64, "Karanganyar", 270000)
c10 = MhsTIF("Khalid", 29, "Purwodadi", 265000)
Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]
def cariAsal():
target = 'Klaten'
for i in Daftar:
if i.kota == target:
print(i.nama + ' tinggal di ' + target)
def cariTerkecil(kumpulan):
n = len(kumpulan)
terkecil = kumpulan[0]
for i in range(1, n):
if kumpulan[i] < terkecil:
terkecil = kumpulan[i]
return terkecil
kumpulan = [2, 5, 753, 24, 25, 3, 5, 7, 12]
cariTerkecil(kumpulan)
Ln: 77 Col: 16
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:/semester 4/praktikum algoritma struktur data/modul 4/kegiatan1.py
>>> cariAsal()
Deni tinggal di Klaten
Janto tinggal di Klaten
>>> kumpulan = [2, 5, 753, 24, 25, 3, 5, 7, 12]
>>> cariTerkecil(kumpulan)
2
>>>
Ln: 11 Col: 4
ENG 13:11

kegiatan1.py - D:/semester 4/praktikum algoritma struktur data/modul 4/kegiatan1.py (3.7.0)
File Edit Format Run Options Window Help
##def cariTerkecil(kumpulan):
##n = len(kumpulan)
##terkecil = kumpulan[0]
##for i in range(1, n):
##if kumpulan[i] < terkecil:
##terkecil = kumpulan[i]
##return terkecil
##kumpulan = [2, 5, 753, 24, 25, 3, 5, 7, 12]
##cariTerkecil(kumpulan)
def binSe(kumpulan, target):
# Mulai dari seluruh runtutan elemen
low = 0
high = len(kumpulan) - 1
# Secara berulang belah runtutan itu menjadi separuhnya
# sampai targetnya ditemukan
while low <= high:
# Temukan pertengahan runtut itu
mid = (high + low) // 2
# Apakah pertengahannya memuat target?
if kumpulan[mid] == target:
return True
# ataukah targetnya di sebelah kirinya?
elif target < kumpulan[mid]:
high = mid - 1
# ataukah targetnya di sebelah kanannya?
else:
low = mid + 1
# Jika runtutnya tidak bisa dibelah lagi, berarti targetnya tidak ada
return False
Ln: 16 Col: 25
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:/semester 4/praktikum algoritma struktur data/modul 4/kegiatan1.py
>>> kumpulan = [2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
>>> binSe(kumpulan, 10)
True
>>> binSe(kumpulan, 12)
False
>>> binSe(kumpulan, 31)
True
>>>
Ln: 12 Col: 4
ENG 13:14