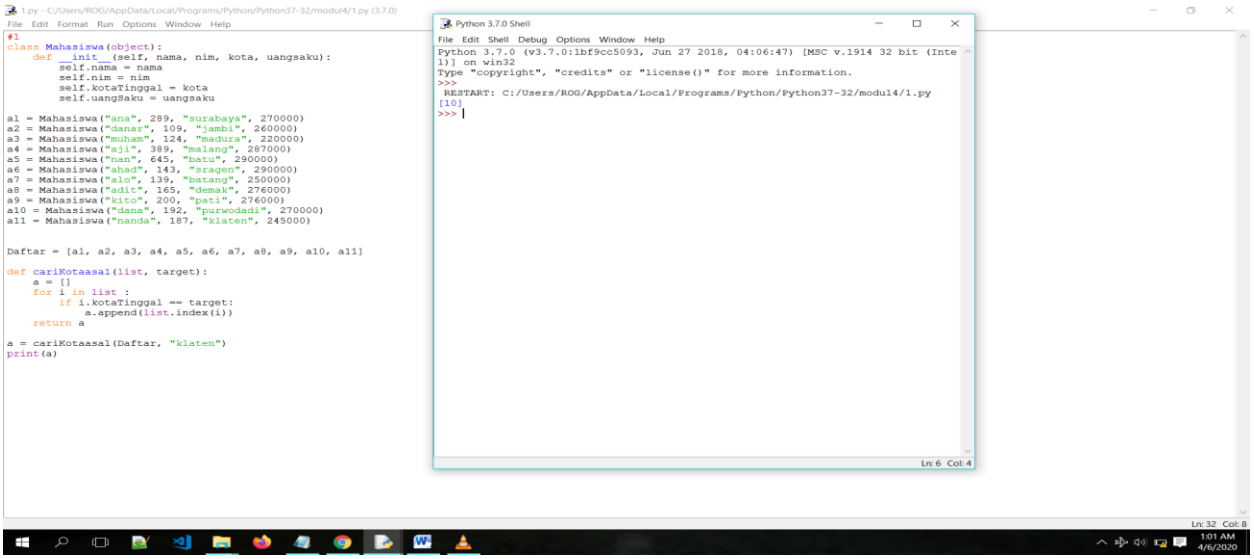
Nama : moch afrizal

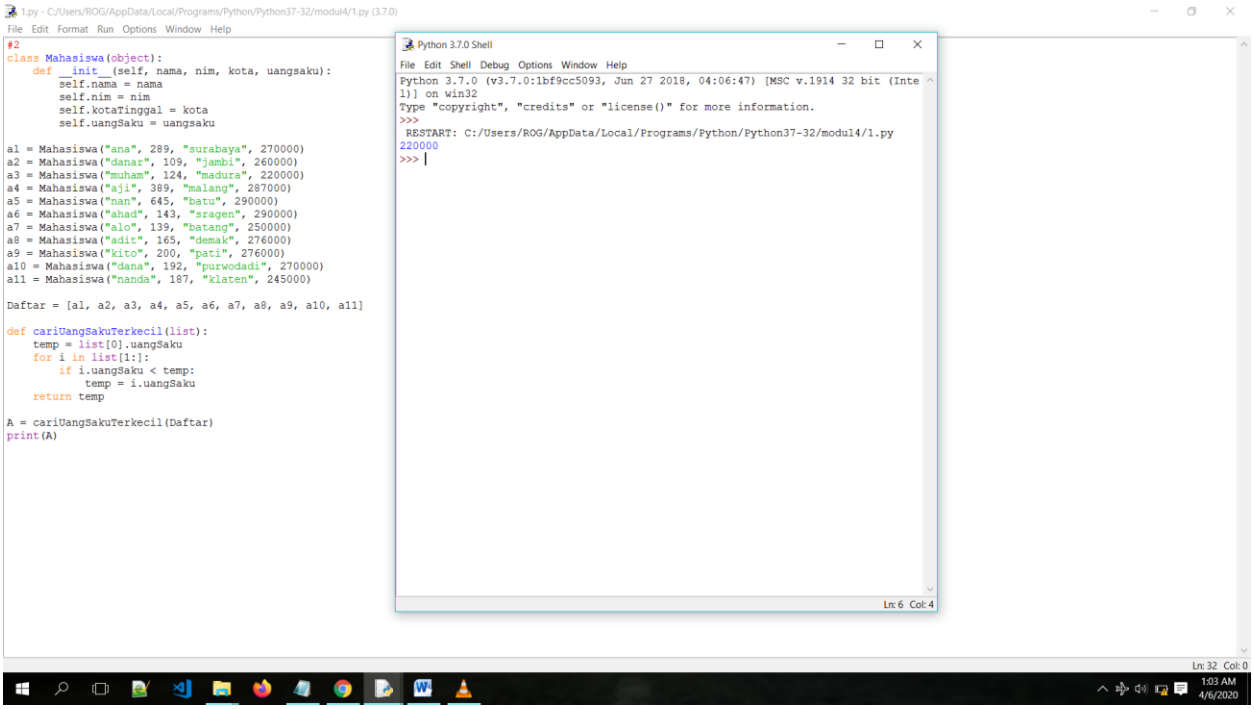
No : L200180022

Modul 4

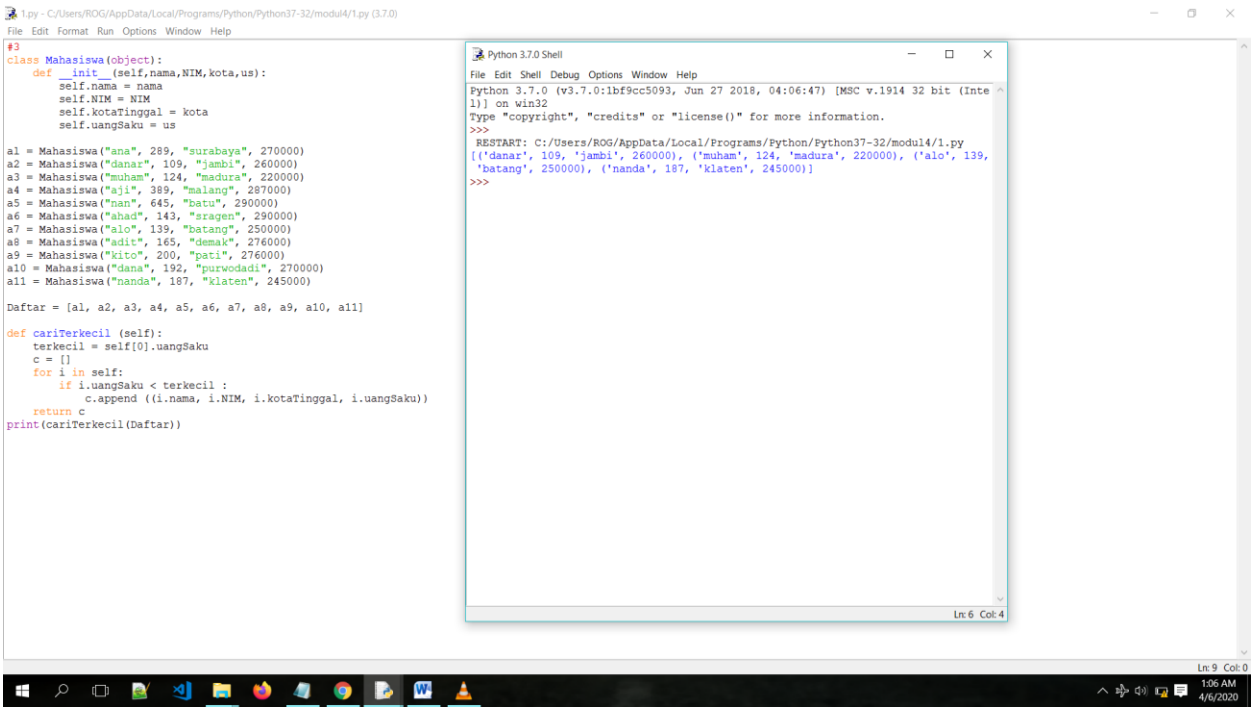
1



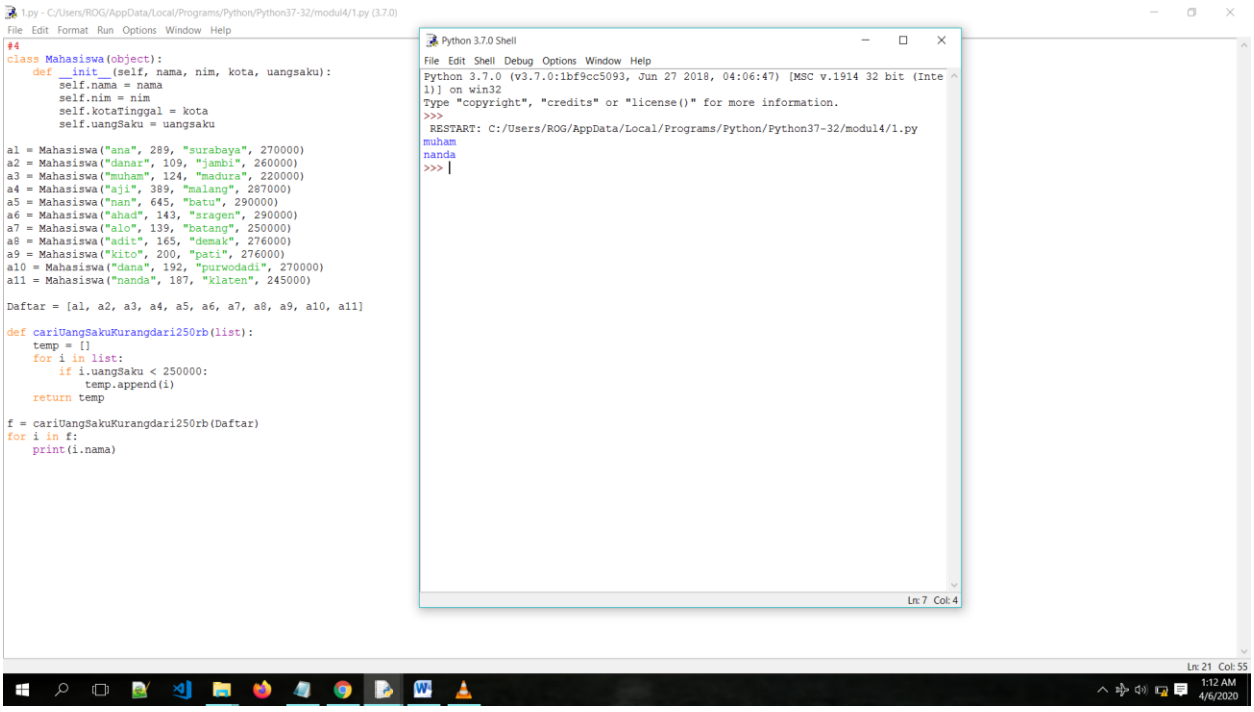
2



3


1.py - C:/Users/ROG/AppData/Local/Programs/Python/Python37-32/modul4/1.py (3.7.0)
File Edit Format Run Options Window Help
#3
class Mahasiswa(object):
def __init__(self,nama,NIM,kota,us):
self.nama = nama
self.NIM = NIM
self.kotaTinggal = kota
self.uangSaku = us
a1 = Mahasiswa("ana", 289, "surabaya", 270000)
a2 = Mahasiswa("danar", 109, "jambi", 260000)
a3 = Mahasiswa("muham", 124, "madura", 220000)
a4 = Mahasiswa("aji", 389, "malang", 287000)
a5 = Mahasiswa("nan", 645, "batu", 290000)
a6 = Mahasiswa("ahad", 143, "sragen", 290000)
a7 = Mahasiswa("alo", 139, "batang", 250000)
a8 = Mahasiswa("adit", 165, "demak", 276000)
a9 = Mahasiswa("kito", 200, "pati", 276000)
a10 = Mahasiswa("dana", 192, "purwodadi", 270000)
a11 = Mahasiswa("nanda", 187, "klaten", 245000)
Daftar = [a1, a2, a3, a4, a5, a6, a7, a8, a9, a10, a11]
def cariTerkecil (self):
terkecil = self[0].uangSaku
c = []
for i in self:
if i.uangSaku < terkecil :
c.append ((i.nama, i.NIM, i.kotaTinggal, i.uangSaku))
return c
print(cariTerkecil(Daftar))
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: C:/Users/ROG/AppData/Local/Programs/Python/Python37-32/modul4/1.py
[('danar', 109, 'jambi', 260000), ('muham', 124, 'madura', 220000), ('alo', 139, 'batang', 250000), ('nanda', 187, 'klaten', 245000)]
>>>
Ln: 6 Col: 4
Ln: 9 Col: 0
1:06 AM
4/6/2020

4


1.py - C:/Users/ROG/AppData/Local/Programs/Python/Python37-32/modul4/1.py (3.7.0)
File Edit Format Run Options Window Help
#4
class Mahasiswa(object):
def __init__(self, nama, nim, kota, uangsaku):
self.nama = nama
self.nim = nim
self.kotaTinggal = kota
self.uangSaku = uangsaku
a1 = Mahasiswa("ana", 289, "surabaya", 270000)
a2 = Mahasiswa("danar", 109, "jambi", 260000)
a3 = Mahasiswa("muham", 124, "madura", 220000)
a4 = Mahasiswa("aji", 389, "malang", 287000)
a5 = Mahasiswa("nan", 645, "batu", 290000)
a6 = Mahasiswa("ahad", 143, "sragen", 290000)
a7 = Mahasiswa("alo", 139, "batang", 250000)
a8 = Mahasiswa("adit", 165, "demak", 276000)
a9 = Mahasiswa("kito", 200, "pati", 276000)
a10 = Mahasiswa("dana", 192, "purwodadi", 270000)
a11 = Mahasiswa("nanda", 187, "klaten", 245000)
Daftar = [a1, a2, a3, a4, a5, a6, a7, a8, a9, a10, a11]
def cariUangSakuKurangdari250rb(list):
temp = []
for i in list:
if i.uangSaku < 250000:
temp.append(i)
return temp
f = cariUangSakuKurangdari250rb(Daftar)
for i in f:
print(i.nama)
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: C:/Users/ROG/AppData/Local/Programs/Python/Python37-32/modul4/1.py
muham
nanda
>>>
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Ln: 21 Col: 55
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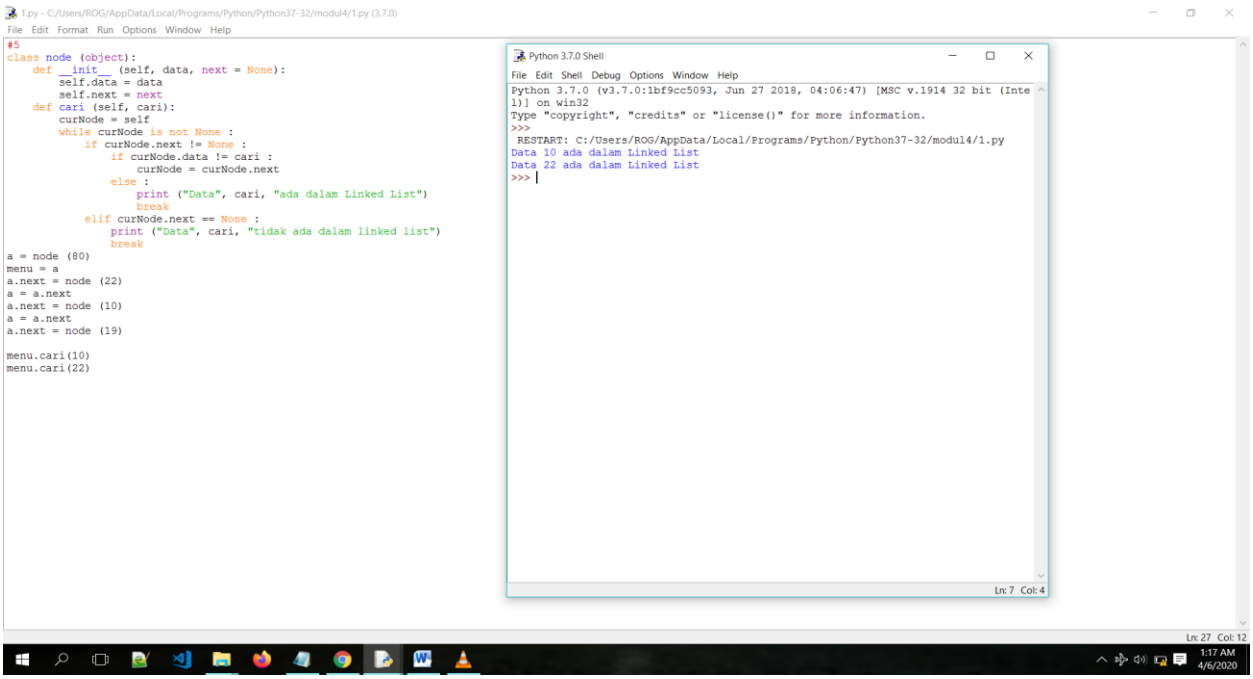
4/6/2020

5


1.py - C:/Users/ROG/AppData/Local/Programs/Python/Python37-32/modul4/1.py (3.7.0)
File Edit Format Run Options Window Help
#5
class node (object):
def __init__ (self, data, next = None):
self.data = data
self.next = next
def cari (self, cari):
curNode = self
while curNode is not None :
if curNode.next != None :
if curNode.data != cari :
curNode = curNode.next
else :
print ("Data", cari, "ada dalam Linked List")
break
elif curNode.next == None :
print ("Data", cari, "tidak ada dalam linked list")
break
a = node (80)
menu = a
a.next = node (22)
a = a.next
a.next = node (10)
a = a.next
a.next = node (19)
menu.cari(10)
menu.cari(22)
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 (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:/Users/ROG/AppData/Local/Programs/Python/Python37-32/modul4/1.py
Data 10 ada dalam Linked List
Data 22 ada dalam Linked List
>>>
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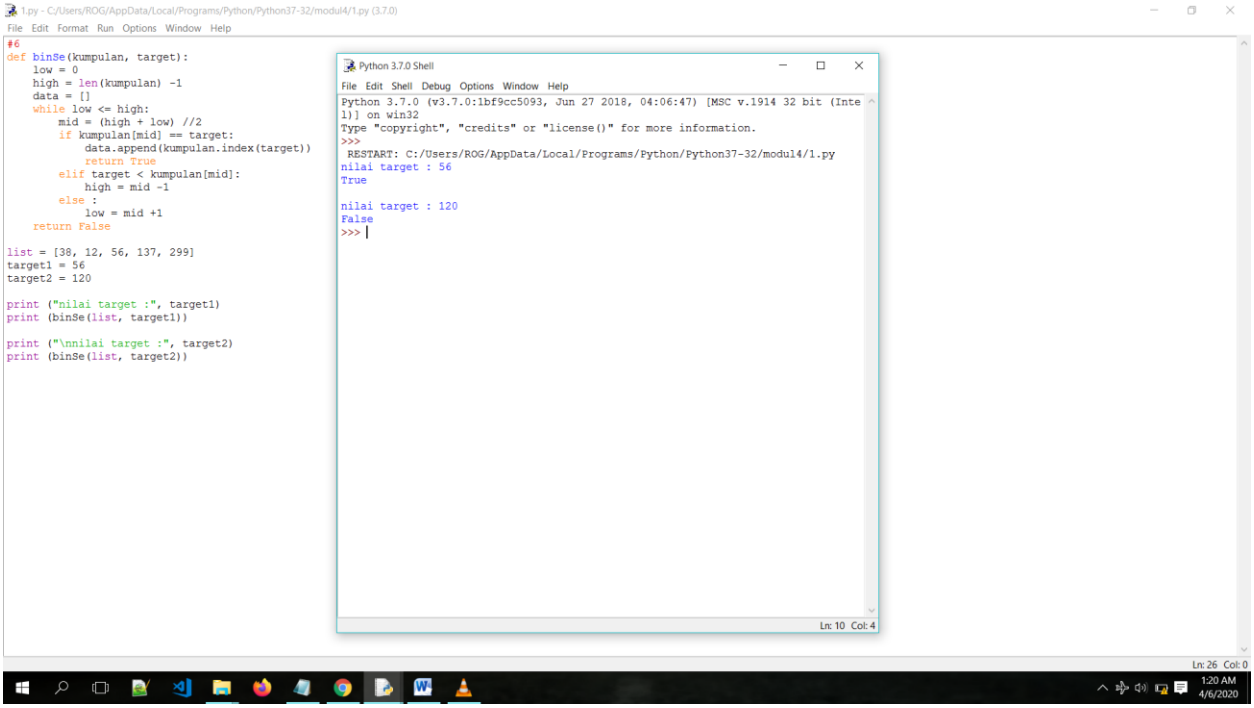
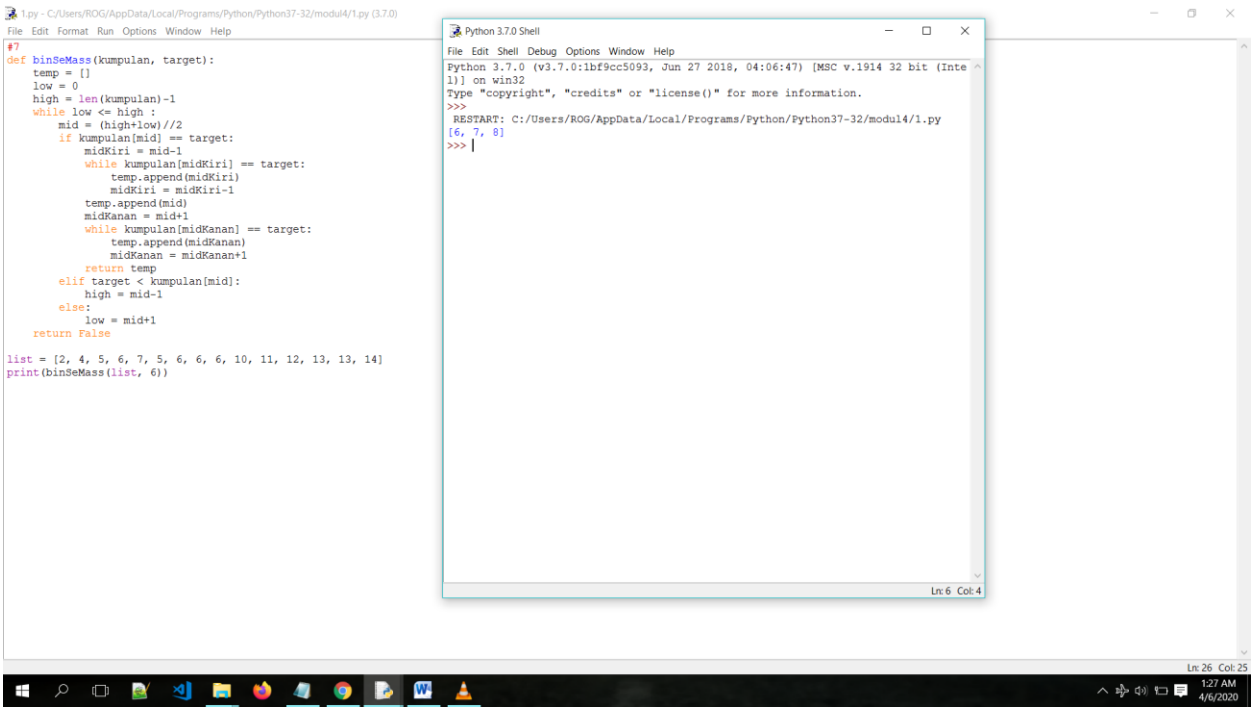
Ln: 27 Col: 12
1:17 AM
4/6/2020

6


1.py - C:/Users/ROG/AppData/Local/Programs/Python/Python37-32/modul4/1.py (3.7.0)
File Edit Format Run Options Window Help
#6
def binSe(kumpulan, target):
low = 0
high = len(kumpulan) -1
data = []
while low <= high:
mid = (high + low) //2
if kumpulan[mid] == target:
data.append(kumpulan.index(target))
return True
elif target < kumpulan[mid]:
high = mid -1
else :
low = mid +1
return False
list = [38, 12, 56, 137, 299]
target1 = 56
target2 = 120
print ("nilai target :", target1)
print (binSe(list, target1))
print ("\nnilai target :", target2)
print (binSe(list, target2))
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 (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:/Users/ROG/AppData/Local/Programs/Python/Python37-32/modul4/1.py
nilai target : 56
True
nilai target : 120
False
>>>
Ln: 10 Col: 4
Ln: 26 Col: 0
1:20 AM
4/6/2020

7


1.py - C:/Users/ROG/AppData/Local/Programs/Python/Python37-32/modul4/1.py (3.7.0)
File Edit Format Run Options Window Help
#7
def binSeMass(kumpulan, target):
temp = []
low = 0
high = len(kumpulan)-1
while low <= high :
mid = (high+low)//2
if kumpulan[mid] == target:
midKiri = mid-1
while kumpulan[midKiri] == target:
temp.append(midKiri)
midKiri = midKiri-1
temp.append(mid)
midKanan = mid+1
while kumpulan[midKanan] == target:
temp.append(midKanan)
midKanan = midKanan+1
return temp
elif target < kumpulan[mid]:
high = mid-1
else:
low = mid+1
return False
list = [2, 4, 5, 6, 7, 5, 6, 6, 6, 10, 11, 12, 13, 13, 14]
print(binSeMass(list, 6))
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: C:/Users/ROG/AppData/Local/Programs/Python/Python37-32/modul4/1.py
[6, 7, 8]
>>>
Ln: 6 Col: 4
Ln: 26 Col: 25
1:27 AM
4/6/2020