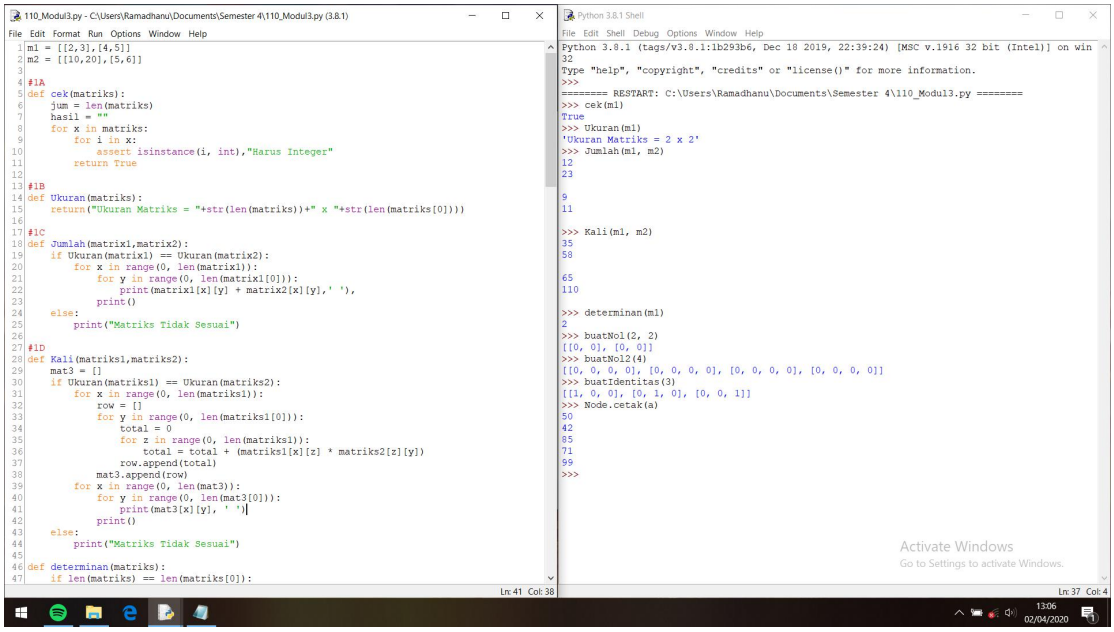
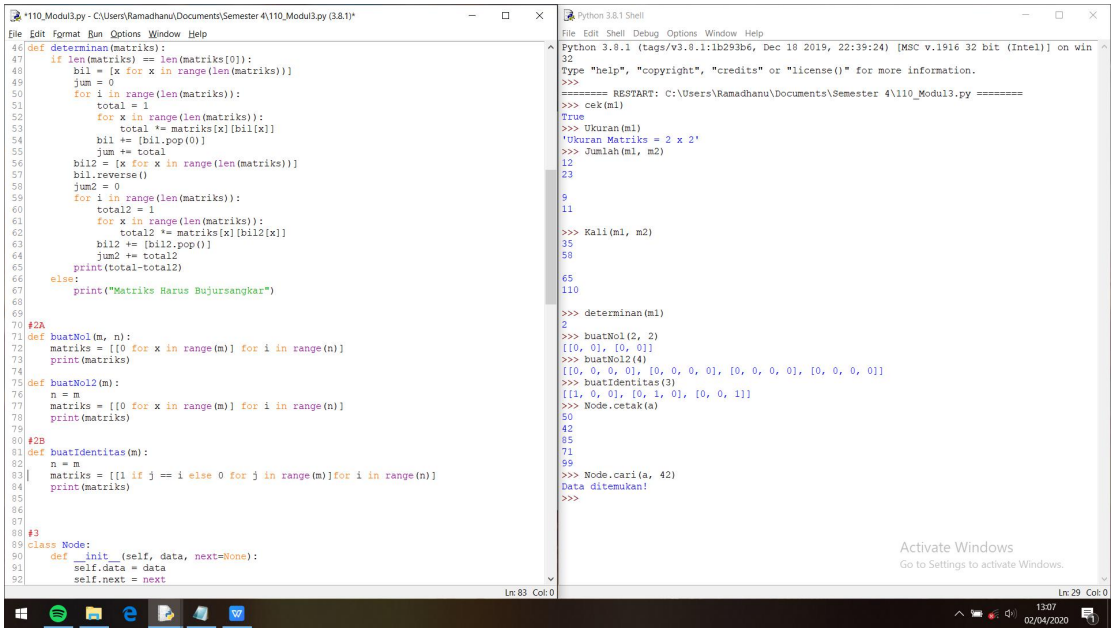
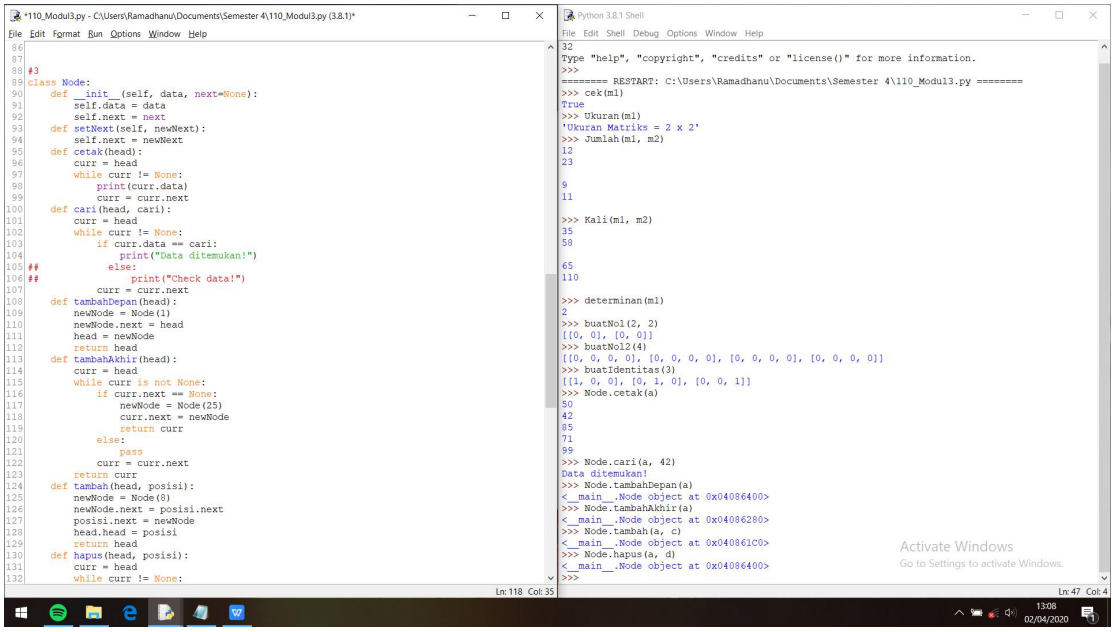
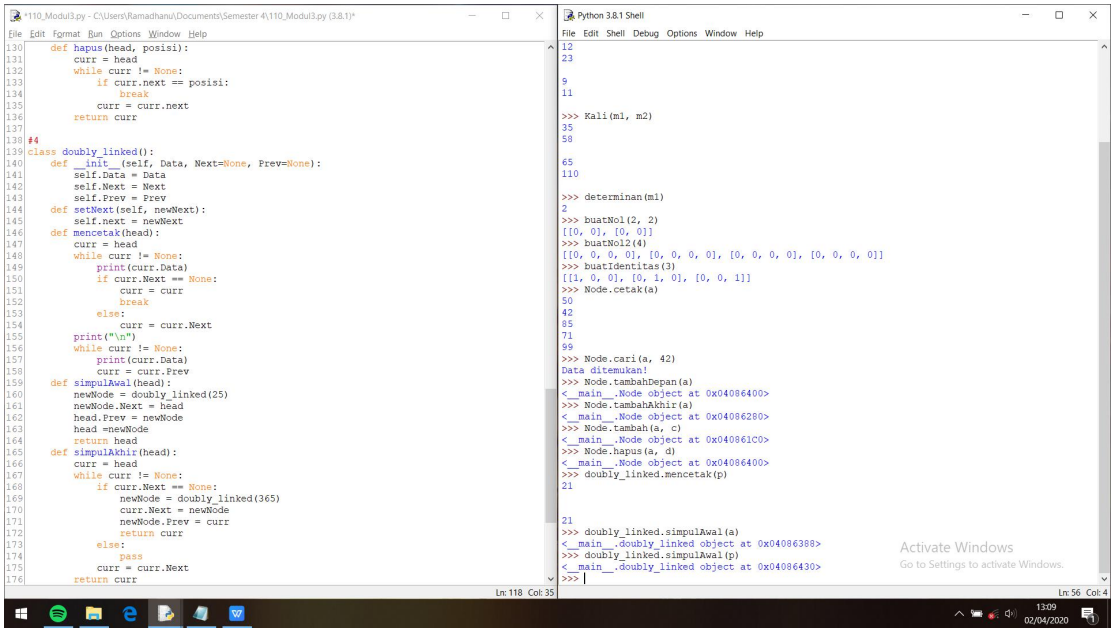

110_Modul3.py - C:\Users\Ramadhanu\Documents\Semester 4\110_Modul3.py (3.8.1)
File Edit Format Run Options Window Help
m1 = [[2,3],[4,5]]
m2 = [[10,20],[5,6]]
#1A
def cek(matriks):
jum = len(matriks)
hasil = ""
for x in matriks:
for i in x:
assert isinstance(i, int),"Harus Integer"
return True
#1B
def Ukuran(matriks):
return("Ukuran Matriks = "+str(len(matriks))+" x "+str(len(matriks[0])))
#1C
def Jumlah(matrix1,matrix2):
if Ukuran(matrix1) == Ukuran(matrix2):
for x in range(0, len(matrix1)):
for y in range(0, len(matrix1[0])):
print(matrix1[x][y] + matrix2[x][y],' '),
print()
else:
print("Matriks Tidak Sesuai")
#1D
def Kali(matriks1,matriks2):
mat3 = []
if Ukuran(matriks1) == Ukuran(matriks2):
for x in range(0, len(matriks1)):
row = []
for y in range(0, len(matriks1[0])):
total = 0
for z in range(0, len(matriks1)):
total = total + (matriks1[x][z] * matriks2[z][y])
row.append(total)
mat3.append(row)
for x in range(0, len(mat3)):
for y in range(0, len(mat3[0])):
print(mat3[x][y], ' ')
print()
else:
print("Matriks Tidak Sesuai")
def determinan(matriks):
if len(matriks) == len(matriks[0]):
Ln: 41 Col: 38
Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win
32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\Ramadhanu\Documents\Semester 4\110_Modul3.py ========
>>> cek(m1)
True
>>> Ukuran(m1)
'Ukuran Matriks = 2 x 2'
>>> Jumlah(m1, m2)
12
23
9
11
>>> Kali(m1, m2)
35
58
65
110
>>> determinan(m1)
2
>>> buatNol(2, 2)
[[0, 0], [0, 0]]
>>> buatNol2(4)
[[0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0]]
>>> buatIdentitas(3)
[[1, 0, 0], [0, 1, 0], [0, 0, 1]]
>>> Node.cetak(a)
50
42
85
71
99
>>>
Activate Windows
Go to Settings to activate Windows.
Ln: 37 Col: 4
13:06
02/04/2020


110_Modul3.py - C:\Users\Ramadhanu\Documents\Semester 4\110_Modul3.py (3.8.1)
File Edit Format Run Options Window Help
def determinan(matriks):
if len(matriks) == len(matriks[0]):
bil = [x for x in range(len(matriks))]
jum = 0
for i in range(len(matriks)):
total = 1
for x in range(len(matriks)):
total *= matriks[x][bil[x]]
bil += [bil.pop(0)]
jum += total
bil2 = [x for x in range(len(matriks))]
bil.reverse()
jum2 = 0
for i in range(len(matriks)):
total2 = 1
for x in range(len(matriks)):
total2 *= matriks[x][bil2[x]]
bil2 += [bil2.pop()]
jum2 += total2
print(total-total2)
else:
print("Matriks Harus Bujursangkar")
#2A
def buatNol(m, n):
matriks = [[0 for x in range(m)] for i in range(n)]
print(matriks)
def buatNol2(m):
n = m
matriks = [[0 for x in range(m)] for i in range(n)]
print(matriks)
#2B
def buatIdentitas(m):
n = m
matriks = [[1 if j == i else 0 for j in range(m)]for i in range(n)]
print(matriks)
#3
class Node:
def __init__(self, data, next=None):
self.data = data
self.next = next
Ln: 83 Col: 0
Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win
32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\Ramadhanu\Documents\Semester 4\110_Modul3.py ========
>>> cek(m1)
True
>>> Ukuran(m1)
'Ukuran Matriks = 2 x 2'
>>> Jumlah(m1, m2)
12
23
9
11
>>> Kali(m1, m2)
35
58
65
110
>>> determinan(m1)
2
>>> buatNol(2, 2)
[[0, 0], [0, 0]]
>>> buatNol2(4)
[[0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0]]
>>> buatIdentitas(3)
[[1, 0, 0], [0, 1, 0], [0, 0, 1]]
>>> Node.cetak(a)
50
42
85
71
99
>>> Node.cari(a, 42)
Data ditemukan!
>>>
Activate Windows
Go to Settings to activate Windows.
Ln: 29 Col: 0
13:07
02/04/2020


110_Modul3.py - C:\Users\Ramadhanu\Documents\Semester 4\110_Modul3.py (3.8.1)
File Edit Format Run Options Window Help
#3
class Node:
def __init__(self, data, next=None):
self.data = data
self.next = next
def setNext(self, newNext):
self.next = newNext
def cetak(head):
curr = head
while curr != None:
print(curr.data)
curr = curr.next
def cari(head, cari):
curr = head
while curr != None:
if curr.data == cari:
print("Data ditemukan!")
else:
print("Check data!")
curr = curr.next
def tambahDepan(head):
newNode = Node(1)
newNode.next = head
head = newNode
return head
def tambahAkhir(head):
curr = head
while curr is not None:
if curr.next == None:
newNode = Node(25)
curr.next = newNode
return curr
else:
pass
curr = curr.next
return curr
def tambah(head, posisi):
newNode = Node(8)
newNode.next = posisi.next
posisi.next = newNode
head.head = posisi
return head
def hapus(head, posisi):
curr = head
while curr != None:
Ln: 118 Col: 35
Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\Ramadhanu\Documents\Semester 4\110_Modul3.py ========
>>> cek(m1)
True
>>> Ukuran(m1)
'Ukuran Matriks = 2 x 2'
>>> Jumlah(m1, m2)
12
23
9
11
>>> Kali(m1, m2)
35
58
65
110
>>> determinan(m1)
2
>>> buatNol(2, 2)
[[0, 0], [0, 0]]
>>> buatNol2(4)
[[0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0]]
>>> buatIdentitas(3)
[[1, 0, 0], [0, 1, 0], [0, 0, 1]]
>>> Node.cetak(a)
50
42
85
71
99
>>> Node.cari(a, 42)
Data ditemukan!
>>> Node.tambahDepan(a)
<__main__.Node object at 0x04086400>
>>> Node.tambahAkhir(a)
<__main__.Node object at 0x04086280>
>>> Node.tambah(a, c)
<__main__.Node object at 0x040861C0>
>>> Node.hapus(a, d)
<__main__.Node object at 0x04086400>
>>>
Activate Windows
Go to Settings to activate Windows.
Ln: 47 Col: 4
13:08
02/04/2020


110_Modul3.py - C:\Users\Ramadhanu\Documents\Semester 4\110_Modul3.py (3.8.1)
File Edit Format Run Options Window Help
def hapus(head, posisi):
curr = head
while curr != None:
if curr.next == posisi:
break
curr = curr.next
return curr
#4
class doubly_linked():
def __init__(self, Data, Next=None, Prev=None):
self.Data = Data
self.Next = Next
self.Prev = Prev
def setNext(self, newNext):
self.next = newNext
def mencetak(head):
curr = head
while curr != None:
print(curr.Data)
if curr.Next == None:
curr = curr
break
else:
curr = curr.Next
print("\n")
while curr != None:
print(curr.Data)
curr = curr.Prev
def simpulAwal(head):
newNode = doubly_linked(25)
newNode.Next = head
head.Prev = newNode
head =newNode
return head
def simpulAkhir(head):
curr = head
while curr != None:
if curr.Next == None:
newNode = doubly_linked(365)
curr.Next = newNode
newNode.Prev = curr
return curr
else:
pass
curr = curr.Next
return curr
Ln: 118 Col: 35
Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
12
23
9
11
>>> Kali(m1, m2)
35
58
65
110
>>> determinan(m1)
2
>>> buatNol(2, 2)
[[0, 0], [0, 0]]
>>> buatNol2(4)
[[0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0]]
>>> buatIdentitas(3)
[[1, 0, 0], [0, 1, 0], [0, 0, 1]]
>>> Node.cetak(a)
50
42
85
71
99
>>> Node.cari(a, 42)
Data ditemukan!
>>> Node.tambahDepan(a)
<__main__.Node object at 0x04086400>
>>> Node.tambahAkhir(a)
<__main__.Node object at 0x04086280>
>>> Node.tambah(a, c)
<__main__.Node object at 0x040861C0>
>>> Node.hapus(a, d)
<__main__.Node object at 0x04086400>
>>> doubly_linked.mencetak(p)
21
21
>>> doubly_linked.simpulAwal(a)
<__main__.doubly_linked object at 0x04086388>
>>> doubly_linked.simpulAwal(p)
<__main__.doubly_linked object at 0x04086430>
>>>
Activate Windows
Go to Settings to activate Windows.
Ln: 56 Col: 4
13:09
02/04/2020