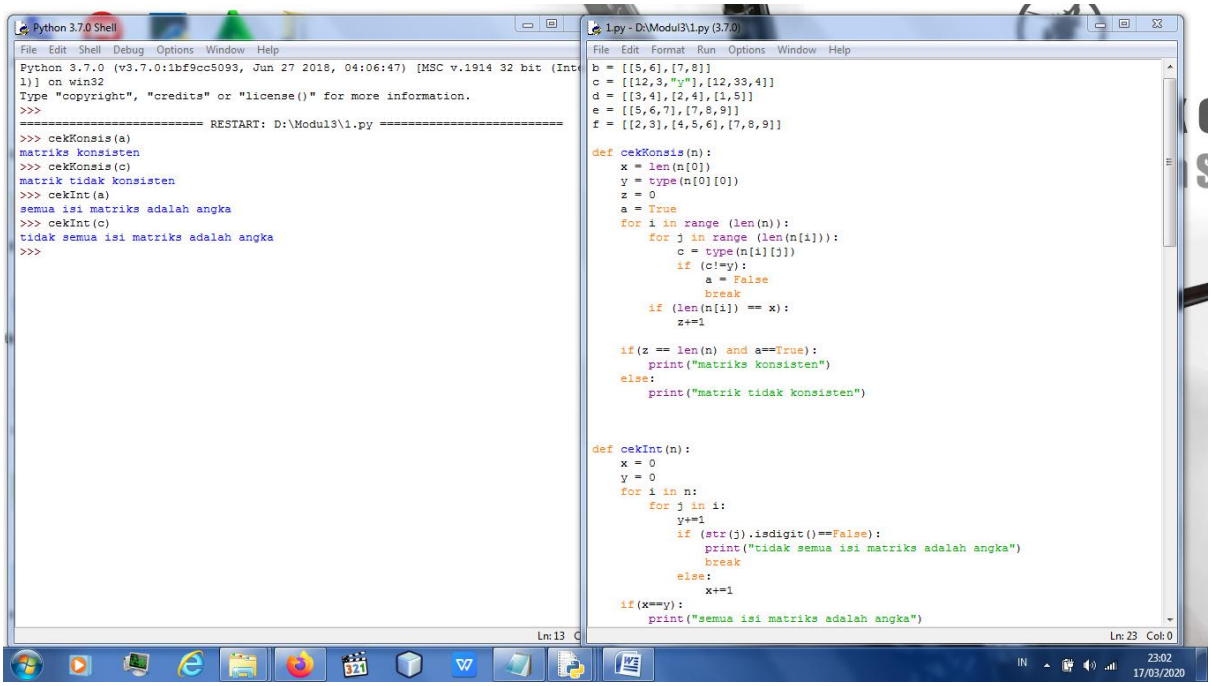
Nama : Amartya Maulana

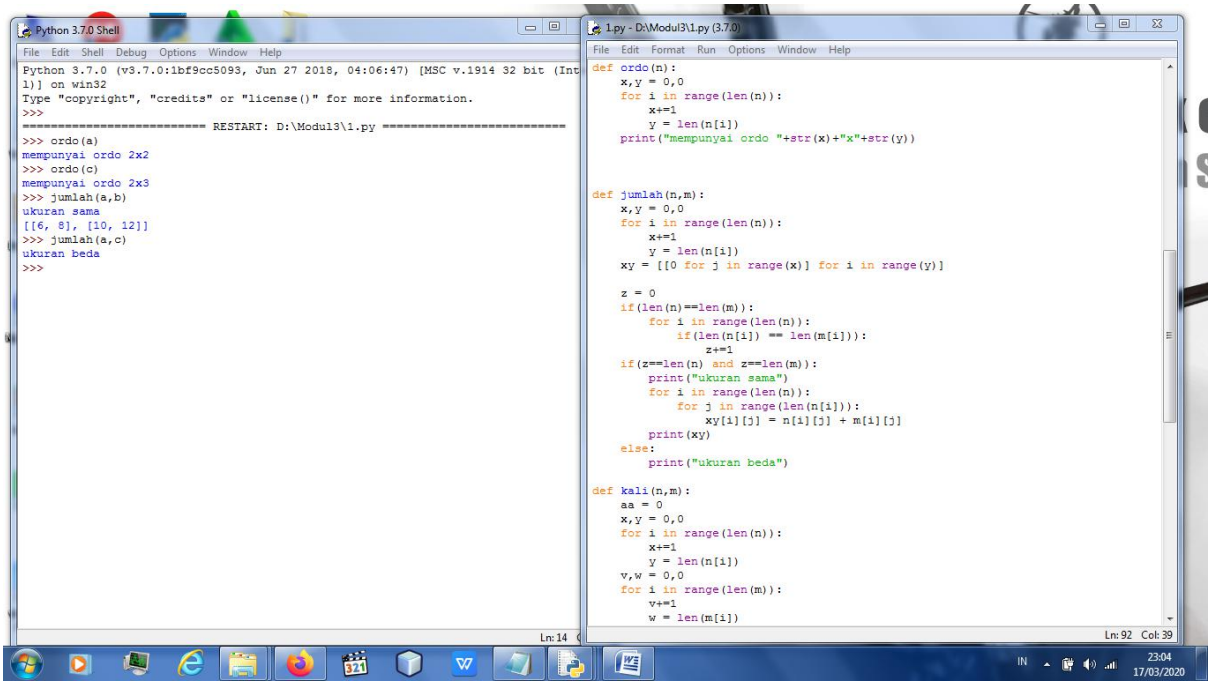
NIM : L200180196

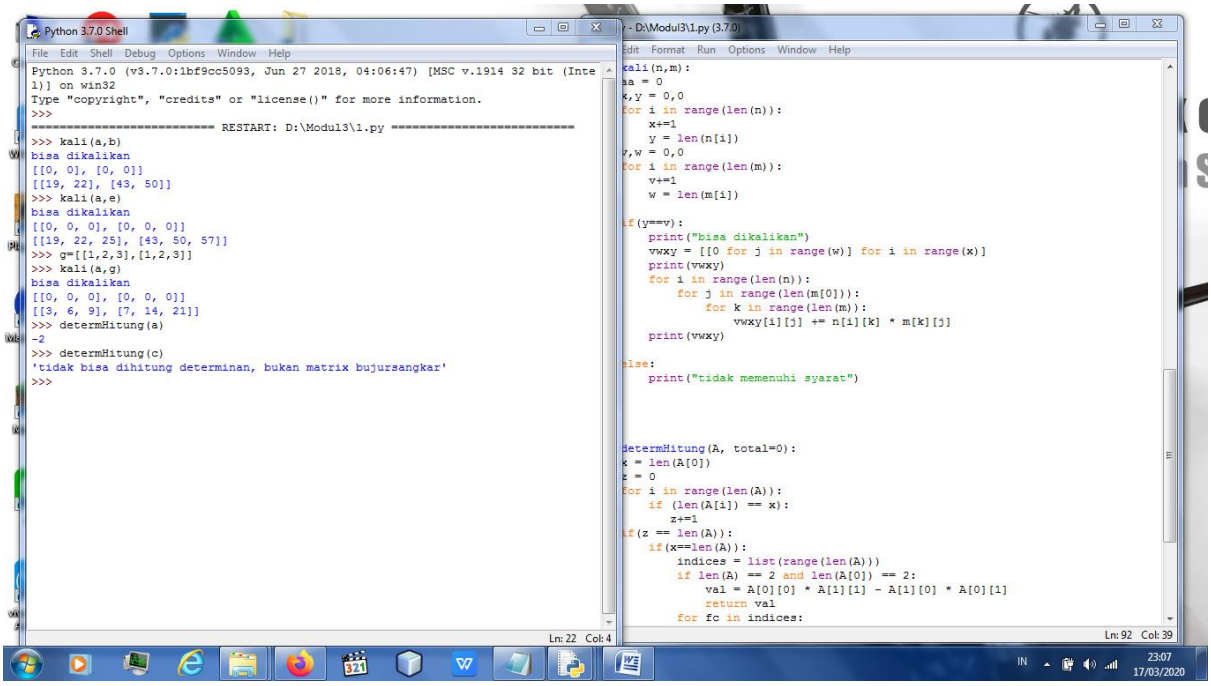
Kelas : G

Tugas 3

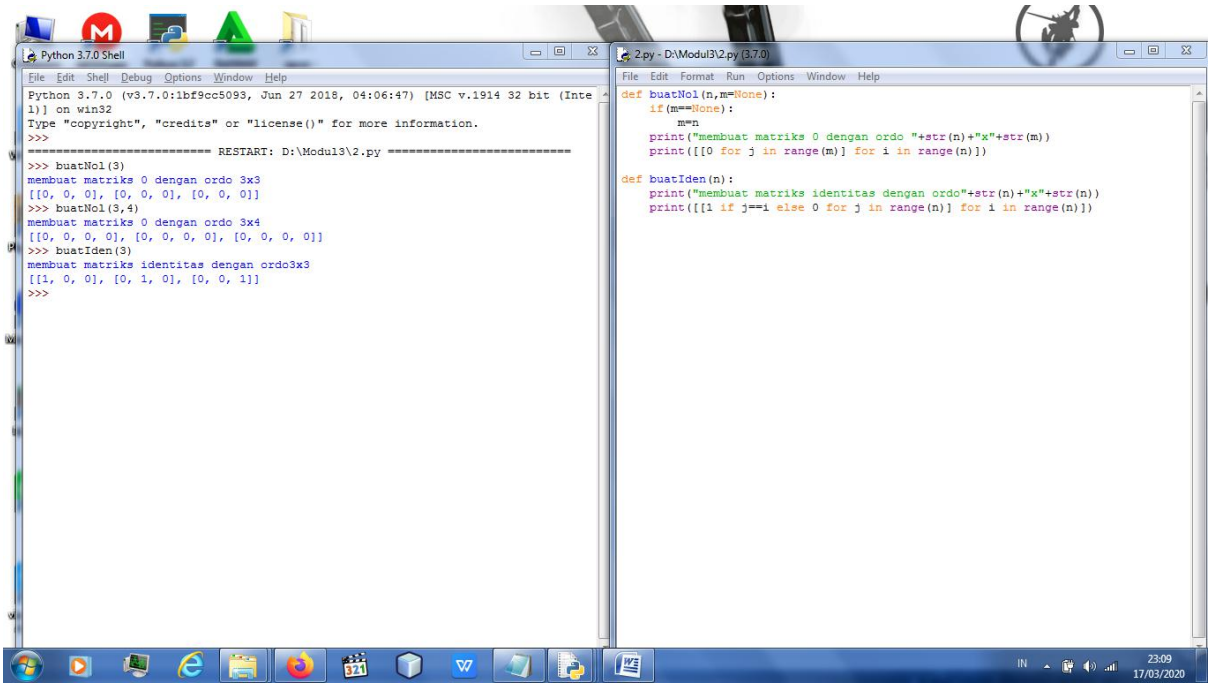
1.



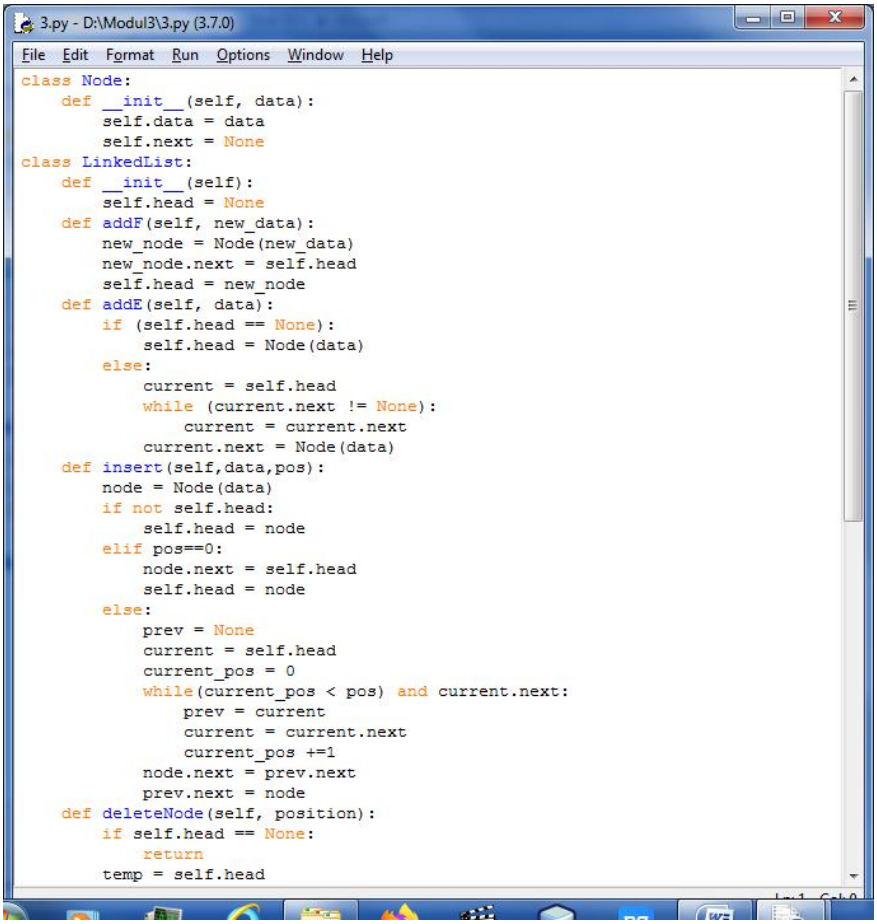


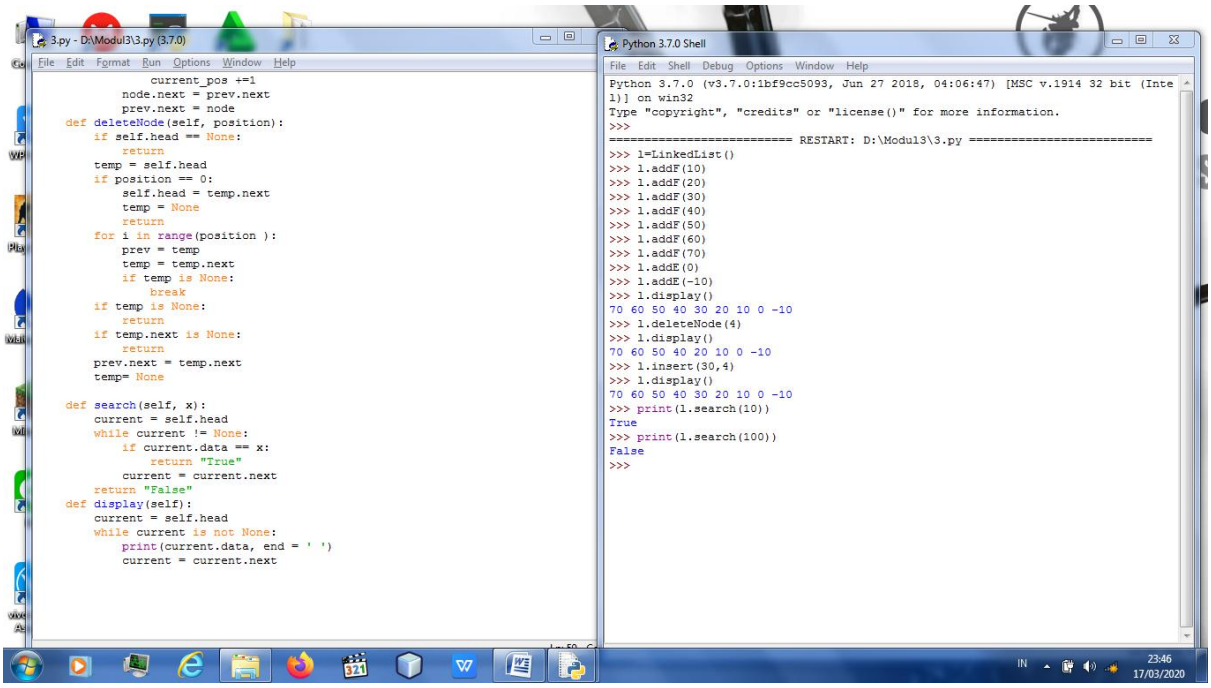

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:\Modul3\1.py ==========
>>> kali(a,b)
bisa dikalikan
[[0, 0], [0, 0]]
[[19, 22], [43, 50]]
>>> kali(a,e)
bisa dikalikan
[[0, 0, 0], [0, 0, 0]]
[[19, 22, 25], [43, 50, 57]]
>>> g=[[1,2,3],[1,2,3]]
>>> kali(a,g)
bisa dikalikan
[[0, 0, 0], [0, 0, 0]]
[[3, 6, 9], [7, 14, 21]]
>>> determHitung(a)
-2
>>> determHitung(c)
'tidak bisa dihitung determinan, bukan matrix bujursangkar'
>>>
Ln: 22 Col: 4
- D:\Modul3\1.py (3.7.0)
Edit Format Run Options Window Help
kali(n,m):
aa = 0
k,y = 0,0
for i in range(len(n)):
x+=1
y = len(n[i])
y,w = 0,0
for i in range(len(m)):
v+=1
w = len(m[i])
if(y==v):
print("bisa dikalikan")
vwxy = [[0 for j in range(w)] for i in range(x)]
print(vwxy)
for i in range(len(n)):
for j in range(len(m[0])):
for k in range(len(m)):
vwxy[i][j] += n[i][k] * m[k][j]
print(vwxy)
else:
print("tidak memenuhi syarat")
determHitung(A, total=0):
k = len(A[0])
z = 0
for i in range(len(A)):
if (len(A[i]) == x):
z+=1
if(z == len(A)):
if(x==len(A)):
indices = list(range(len(A)))
if len(A) == 2 and len(A[0]) == 2:
val = A[0][0] * A[1][1] - A[1][0] * A[0][1]
return val
for fc in indices:
Ln: 92 Col: 39
IN
23:07
17/03/2020

2.

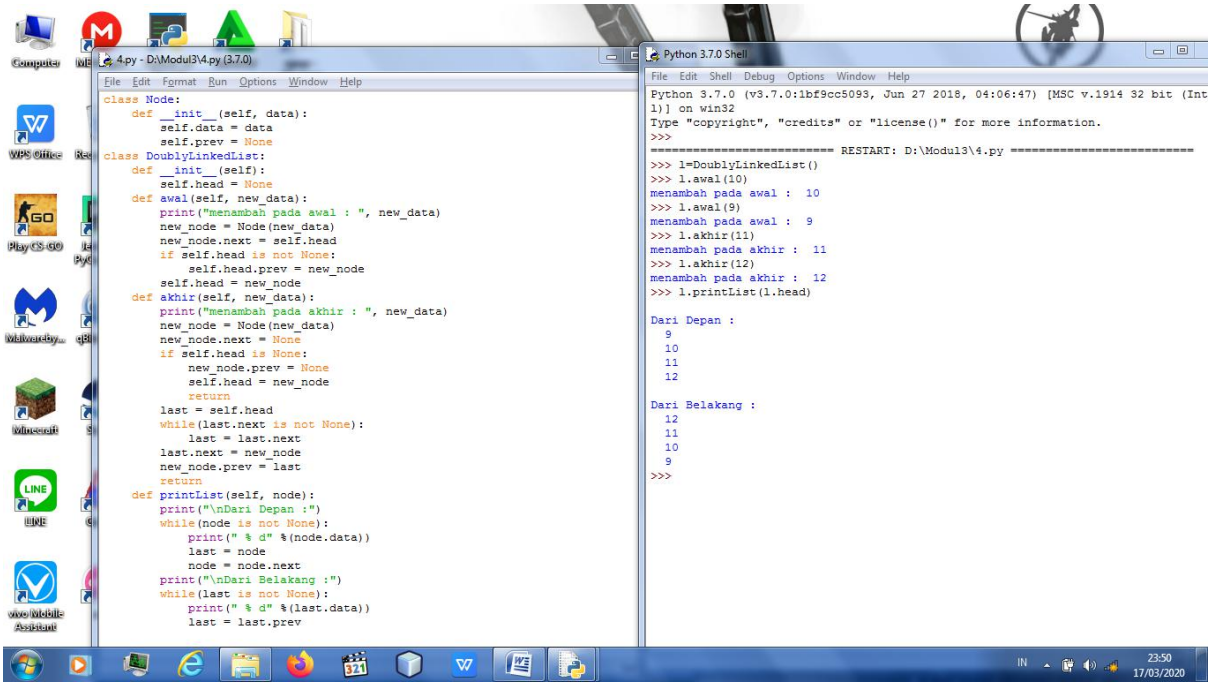

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:\Modul3\2.py ==========
>>> buatNol(3)
membuat matriks 0 dengan ordo 3x3
[[0, 0, 0], [0, 0, 0], [0, 0, 0]]
>>> buatNol(3,4)
membuat matriks 0 dengan ordo 3x4
[[0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0]]
>>> buatIden(3)
membuat matriks identitas dengan ordo3x3
[[1, 0, 0], [0, 1, 0], [0, 0, 1]]
>>>
2.py - D:\Modul3\2.py (3.7.0)
File Edit Format Run Options Window Help
def buatNol(n,m=None):
if(m==None):
m=n
print("membuat matriks 0 dengan ordo "+str(n)+"x"+str(m))
print([[0 for j in range(m)] for i in range(n)])
def buatIden(n):
print("membuat matriks identitas dengan ordo"+str(n)+"x"+str(n))
print([[1 if j==i else 0 for j in range(n)] for i in range(n)])
IN
23:09
17/03/2020

3.


3.py - D:\Modul3\3.py (3.7.0)
File Edit Format Run Options Window Help
class Node:
def __init__(self, data):
self.data = data
self.next = None
class LinkedList:
def __init__(self):
self.head = None
def addF(self, new_data):
new_node = Node(new_data)
new_node.next = self.head
self.head = new_node
def addE(self, data):
if (self.head == None):
self.head = Node(data)
else:
current = self.head
while (current.next != None):
current = current.next
current.next = Node(data)
def insert(self,data,pos):
node = Node(data)
if not self.head:
self.head = node
elif pos==0:
node.next = self.head
self.head = node
else:
prev = None
current = self.head
current_pos = 0
while(current_pos < pos) and current.next:
prev = current
current = current.next
current_pos +=1
node.next = prev.next
prev.next = node
def deleteNode(self, position):
if self.head == None:
return
temp = self.head


3.py - D:\Modul3\3.py (3.7.0)
File Edit Format Run Options Window Help
current_pos +=1
node.next = prev.next
prev.next = node
def deleteNode(self, position):
if self.head == None:
return
temp = self.head
if position == 0:
self.head = temp.next
temp = None
return
for i in range(position):
prev = temp
temp = temp.next
if temp is None:
break
if temp is None:
return
if temp.next is None:
return
prev.next = temp.next
temp= None
def search(self, x):
current = self.head
while current != None:
if current.data == x:
return "True"
current = current.next
return "False"
def display(self):
current = self.head
while current is not None:
print(current.data, end = ' ')
current = current.next
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:\Modul3\3.py ==========
>>> l=LinkedList()
>>> l.addF(10)
>>> l.addF(20)
>>> l.addF(30)
>>> l.addF(40)
>>> l.addF(50)
>>> l.addF(60)
>>> l.addF(70)
>>> l.addE(0)
>>> l.addE(-10)
>>> l.display()
70 60 50 40 30 20 10 0 -10
>>> l.deleteNode(4)
>>> l.display()
70 60 50 40 20 10 0 -10
>>> l.insert(30,4)
>>> l.display()
70 60 50 40 30 20 10 0 -10
>>> print(l.search(10))
True
>>> print(l.search(100))
False
>>>
23:46
17/03/2020

4.


4.py - D:\Modul3\4.py (3.7.0)
File Edit Format Run Options Window Help
class Node:
def __init__(self, data):
self.data = data
self.prev = None
class DoublyLinkedList:
def __init__(self):
self.head = None
def awal(self, new_data):
print("menambah pada awal : ", new_data)
new_node = Node(new_data)
new_node.next = self.head
if self.head is not None:
self.head.prev = new_node
self.head = new_node
def akhir(self, new_data):
print("menambah pada akhir : ", new_data)
new_node = Node(new_data)
new_node.next = None
if self.head is None:
new_node.prev = None
self.head = new_node
return
last = self.head
while(last.next is not None):
last = last.next
last.next = new_node
new_node.prev = last
return
def printList(self, node):
print("\nDari Depan :")
while(node is not None):
print(" % d" %(node.data))
last = node
node = node.next
print("\nDari Belakang :")
while(last is not None):
print(" % d" %(last.data))
last = last.prev
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 (Int
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:\Modul3\4.py ==========
>>> l=DoublyLinkedList()
>>> l.awal(10)
menambah pada awal : 10
>>> l.awal(9)
menambah pada awal : 9
>>> l.akhir(11)
menambah pada akhir : 11
>>> l.akhir(12)
menambah pada akhir : 12
>>> l.printList(l.head)
Dari Depan :
9
10
11
12
Dari Belakang :
12
11
10
9
>>>
Computer
WPS Office
Play CS:GO
MalwareBy...
Minecraft
LINE
vivo Mobile Assistant
IN
23:50
17/03/2020