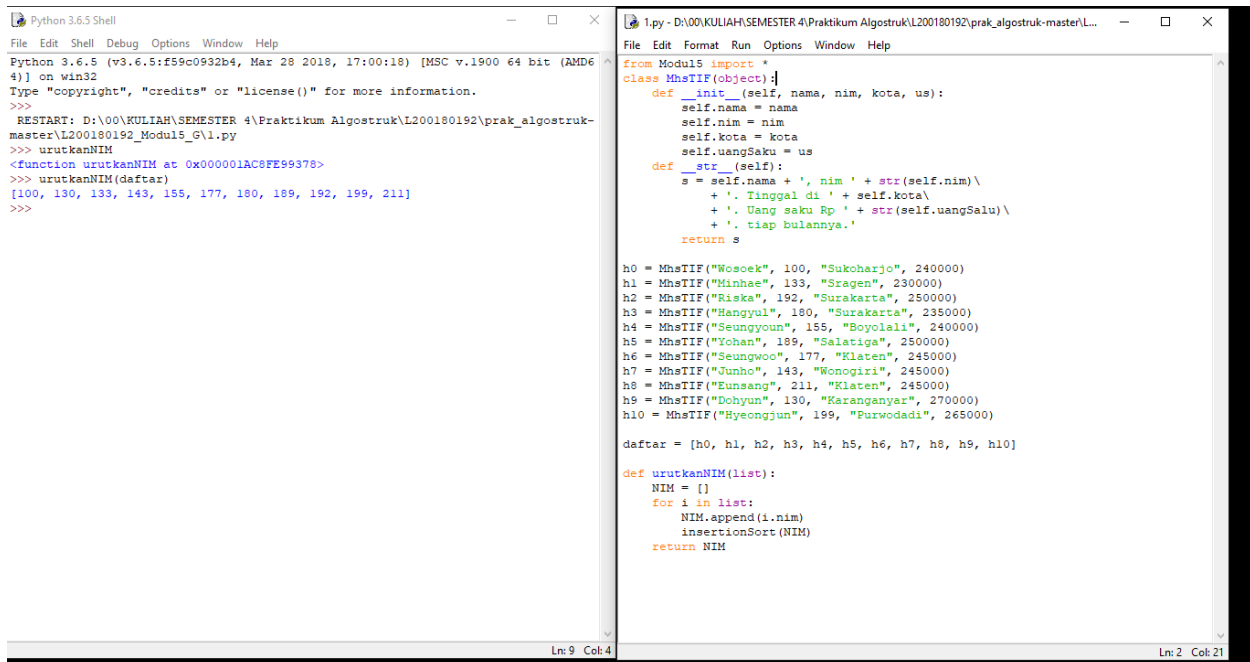


Nama : RIDHO MALANDI

NIM : L200180199

Kelas : G

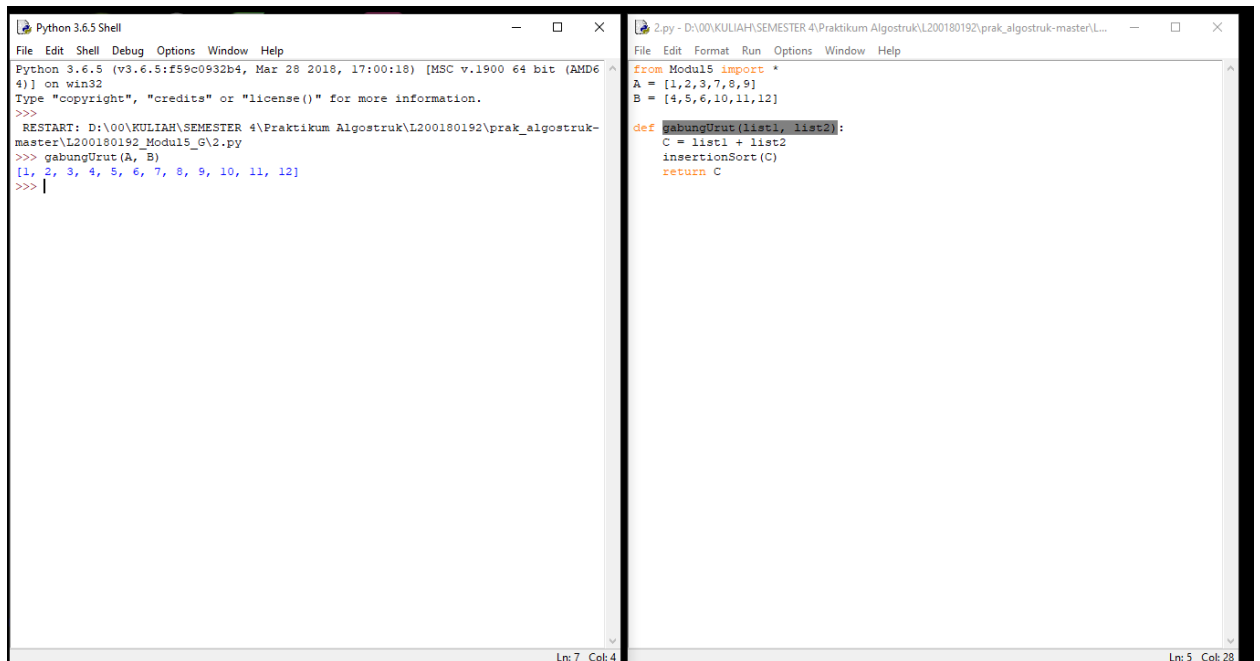
1.



```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\00\KULIAH\SEMESTER 4\Praktikum Algostruk\L200180192\prak_algostruk-master\L200180192_Modul5_g\1.py
>>> urutkanNIM
<function urutkanNIM at 0x000001AC6FE99378>
>>> urutkanNIM(daftar)
[100, 130, 133, 143, 155, 177, 180, 189, 192, 199, 211]
>>>
```

```
1.py - D:\00\KULIAH\SEMESTER 4\Praktikum Algostruk\L200180192\prak_algostruk-master\L...
File Edit Format Run Options Window Help
from Modul5 import *
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.uangSaku)\
            + '. tiap bulannya.'
        return s
h0 = MhsTIF("Wosoek", 100, "Sukoharjo", 240000)
h1 = MhsTIF("Minhae", 133, "Sragen", 230000)
h2 = MhsTIF("Riska", 192, "Surakarta", 250000)
h3 = MhsTIF("Hangyul", 180, "Surakarta", 235000)
h4 = MhsTIF("Seungyeon", 155, "Bojodalim", 240000)
h5 = MhsTIF("Yohan", 189, "Salatiga", 250000)
h6 = MhsTIF("Seungwoo", 177, "Klaten", 245000)
h7 = MhsTIF("Junho", 143, "Wonogiri", 245000)
h8 = MhsTIF("Eunsang", 211, "Klaten", 245000)
h9 = MhsTIF("Dohyun", 130, "Karanganyar", 270000)
h10 = MhsTIF("Hyeonjun", 199, "Purwodadi", 265000)
daftar = [h0, h1, h2, h3, h4, h5, h6, h7, h8, h9, h10]
def urutkanNIM(list):
    NIM = []
    for i in list:
        NIM.append(i.nim)
        insertionSort(NIM)
    return NIM
```

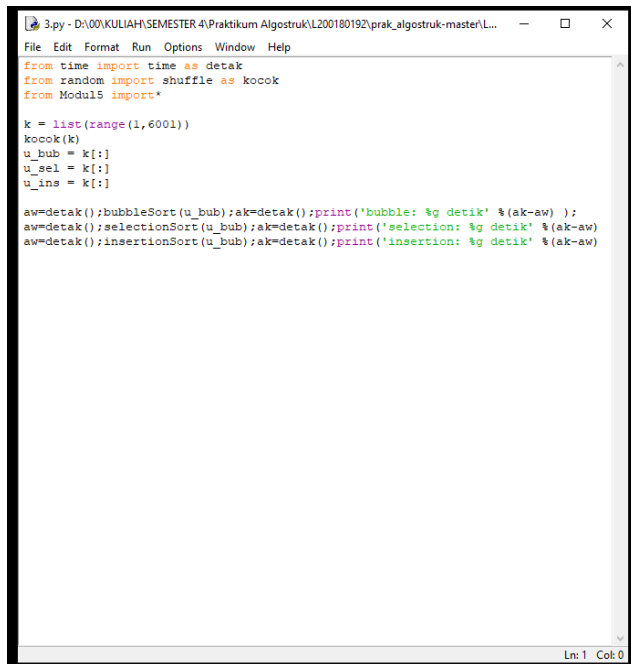
2.



```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\00\KULIAH\SEMESTER 4\Praktikum Algostruk\L200180192\prak_algostruk-master\L200180192_Modul5_G\2.py
>>> gabungUrut(A, B)
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]
>>>
```

```
2.py - D:\00\KULIAH\SEMESTER 4\Praktikum Algostruk\L200180192\prak_algostruk-master\L...
File Edit Format Run Options Window Help
from Modul5 import *
A = [1,2,3,7,8,9]
B = [4,5,6,10,11,12]
def gabungUrut(list1, list2):
    C = list1 + list2
    insertionSort(C)
    return C
```

3.



```
3.py - D:\00\KULIAH\SEMESTER 4\Praktikum Algotruk\L200180192\prak_algotruk-master\L...
File Edit Format Run Options Window Help

from time import time as detik
from random import shuffle as kocok
from Modul5 import *

k = list(range(1,6001))
kocok(k)
u_bub = k[:]
u_sel = k[:]
u_ins = k[:]

av=detak();bubbleSort(u_bub);ak=detak();print('bubble: %g detik' %(ak-av));
av=detak();selectionSort(u_bub);ak=detak();print('selection: %g detik' %(ak-av));
av=detak();insertionSort(u_bub);ak=detak();print('insertion: %g detik' %(ak-av))

Ln: 1 Col: 0
```