

Nama : Viola Lovitasari

NIM : L200180173

Kelas : G

## TUGAS MODUL 5 PRAKTIKUM ASD

### 1.

```
1.py - C:\Users\viola\Documents\173_Modul5_G\Modul 5\1.py (2.7.10)
File Edit Format Run Options Window Help

from kegiatan5 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.uangSalu)\
            + '. tiap bulannya.'
        return s

m0 = MhsTIF("Riska", 132, "Magetan", 120000)
m1 = MhsTIF("Fira", 190, "Madiun", 670000)
m2 = MhsTIF("Siwi", 100, "Batang", 890000)
m3 = MhsTIF("Naura", 292, "Madiun", 35000)
m4 = MhsTIF("Aviza", 112, "Surabaya", 290000)
m5 = MhsTIF("Nina", 199, "Purwodadi", 200000)
m6 = MhsTIF("Sekar", 301, "Medan", 248000)
m7 = MhsTIF("Ulin", 899, "padang", 265000)
m8 = MhsTIF("Tata", 387, "Pontianak", 295000)
m9 = MhsTIF("Ichi", 201, "Banten", 279000)
m10 = MhsTIF("Nimas", 227, "Klaten", 205000)

Daftar = [m0, m1, m2, m3, m4, m5, m6, m7, m8, m9, m10]

def urutNim(list):
    NIM = []
    for i in list:
        NIM.append(i.nim)
    insertionSort(NIM)
    return NIM

print(urutNim(Daftar))
```

```
Python 2.7.10 Shell
File Edit Shell Debug Options Window Help

Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC v.13
n32
Type "copyright", "credits" or "license()" for more info
>>> ===== RESTART =====
>>>
[100, 112, 132, 190, 199, 201, 227, 292, 301, 387, 899]
>>> |
```

### 2.

```
2.py - C:\Users\viola\Documents\173_M
File Edit Format Run Options Win
from kegiatan5 import *

A = [1,2,3]
B = [4,5,6]

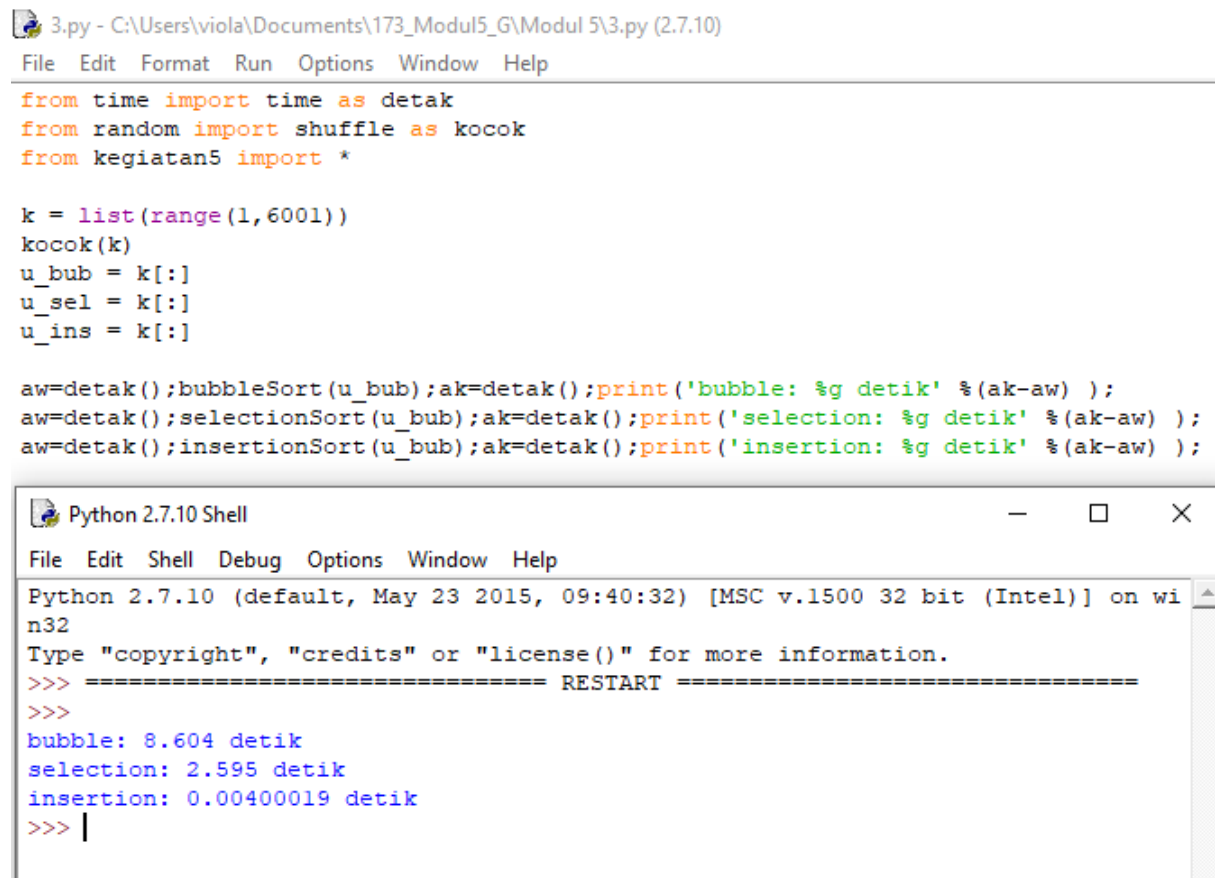
def gabungArr(list1, list2):
    C = list1 + list2
    insertionSort(C)
    return C

print(gabungArr(A,B))
```

```
Python 2.7.10 Shell
File Edit Shell Debug Options

Python 2.7.10 (default, M
n32
Type "copyright", "credit
>>> =====
>>>
[1, 2, 3, 4, 5, 6]
>>> |
```

### 3.



The image shows a Python 2.7.10 IDE window titled '3.py - C:\Users\viola\Documents\173\_Modul5\_G\Modul 5\3.py (2.7.10)'. The menu bar includes File, Edit, Format, Run, Options, Window, and Help. The script content is as follows:

```
from time import time as detik
from random import shuffle as kocok
from kegiatan5 import *

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

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

Below the script is a 'Python 2.7.10 Shell' window. Its menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The shell displays the following output:

```
Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC v.1500 32 bit (Intel)] on wi
n32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
bubble: 8.604 detik
selection: 2.595 detik
insertion: 0.00400019 detik
>>> |
```