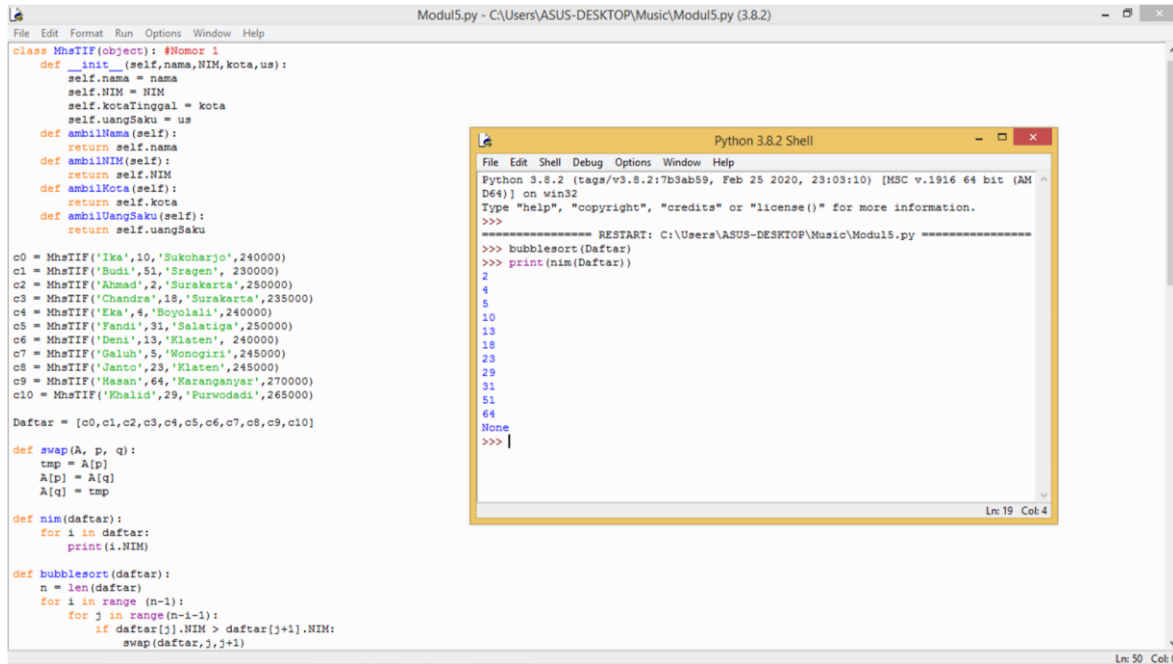


Nama : Danang Ady Saputro Widodo

NIM : L200180205

## MODUL 5

### Nomor 1



```
class MhsTIF(object): #Nomor 1
    def __init__(self, nama, NIM, kota, us):
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilKota(self):
        return self.kota
    def ambilUangSaku(self):
        return self.uangSaku

c0 = MhsTIF('Ika', 10, 'Sukoharjo', 240000)
c1 = MhsTIF('Budi', 51, 'Sragen', 230000)
c2 = MhsTIF('Ahmad', 2, 'Surakarta', 250000)
c3 = MhsTIF('Chandra', 18, 'Surakarta', 235000)
c4 = MhsTIF('Eka', 4, 'Boyolali', 240000)
c5 = MhsTIF('Fandi', 31, 'Salatiga', 250000)
c6 = MhsTIF('Deni', 13, 'Klaten', 240000)
c7 = MhsTIF('Galuh', 5, 'Wonogiri', 245000)
c8 = MhsTIF('Janto', 23, 'Klaten', 245000)
c9 = MhsTIF('Hasan', 64, 'Karanganyar', 270000)
c10 = MhsTIF('Khalid', 29, 'Purwodadi', 265000)

Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]

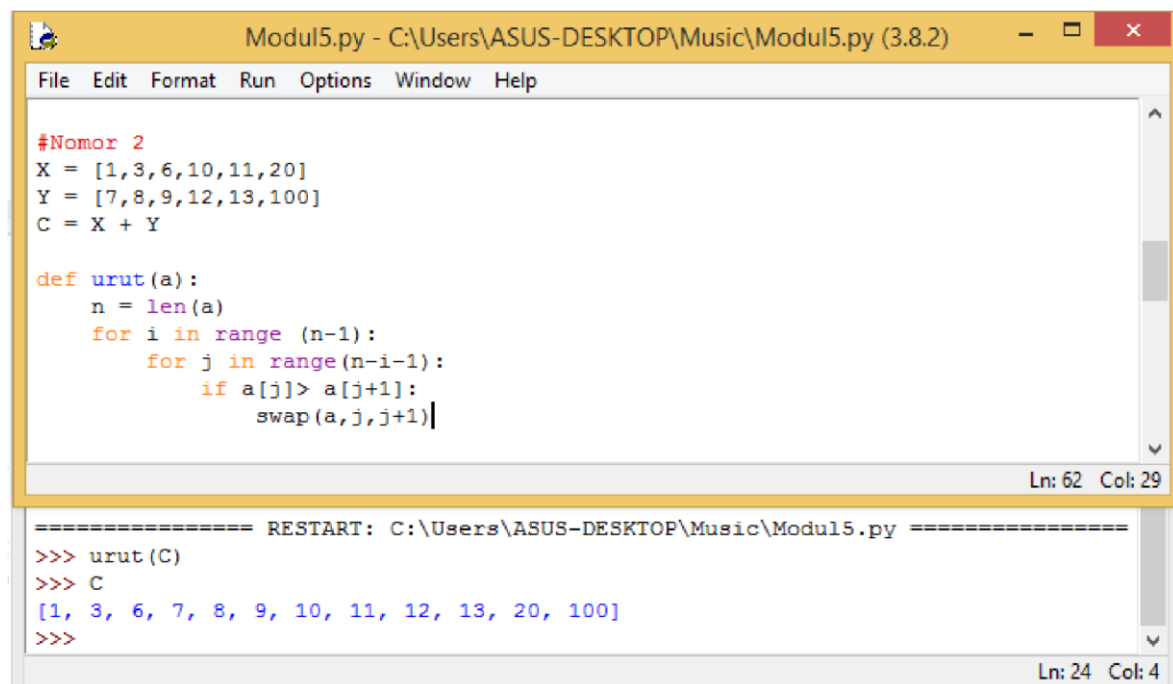
def swap(A, p, q):
    tmp = A[p]
    A[p] = A[q]
    A[q] = tmp

def nim(daftar):
    for i in daftar:
        print(i.NIM)

def bubblesort(daftar):
    n = len(daftar)
    for i in range(n-1):
        for j in range(n-i-1):
            if daftar[j].NIM > daftar[j+1].NIM:
                swap(daftar, j, j+1)
```

```
Python 3.8.2 Shell
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ASUS-DESKTOP\Music\Modul5.py =====
>>> bubblesort(Daftar)
>>> print(nim(Daftar))
2
4
5
10
13
18
23
29
31
51
64
None
>>> |
```

### Nomor 2



```
Modul5.py - C:\Users\ASUS-DESKTOP\Music\Modul5.py (3.8.2)
File Edit Format Run Options Window Help

#Nomor 2
X = [1, 3, 6, 10, 11, 20]
Y = [7, 8, 9, 12, 13, 100]
C = X + Y

def urut(a):
    n = len(a)
    for i in range(n-1):
        for j in range(n-i-1):
            if a[j] > a[j+1]:
                swap(a, j, j+1)
```

```
===== RESTART: C:\Users\ASUS-DESKTOP\Music\Modul5.py =====
>>> urut(C)
>>> C
[1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 20, 100]
>>>
```