

Nama : Veny Fitriana Isnaini

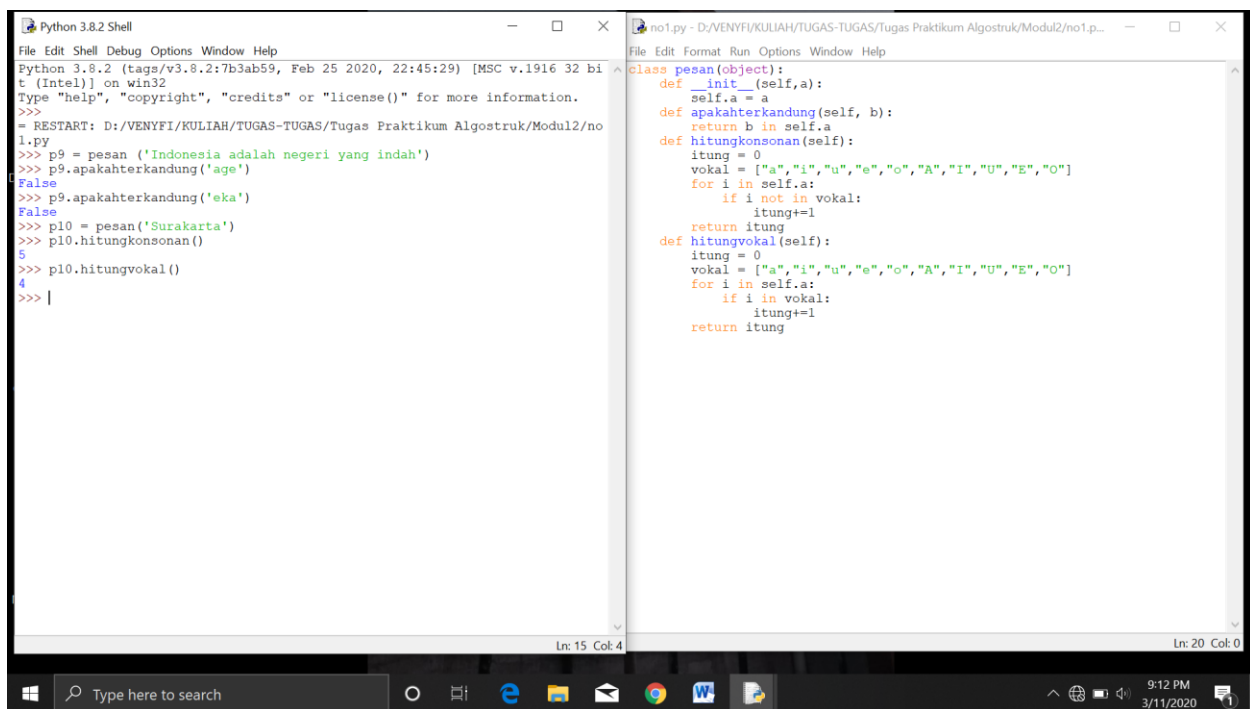
NIM : L200180045

Kelas : B

Modul 2

Mengenal OOP pada Python

No 1



The image shows a screenshot of a Windows desktop with two windows open. The left window is a Python 3.8.2 Shell, and the right window is a Python file editor showing a class definition.

Python 3.8.2 Shell:

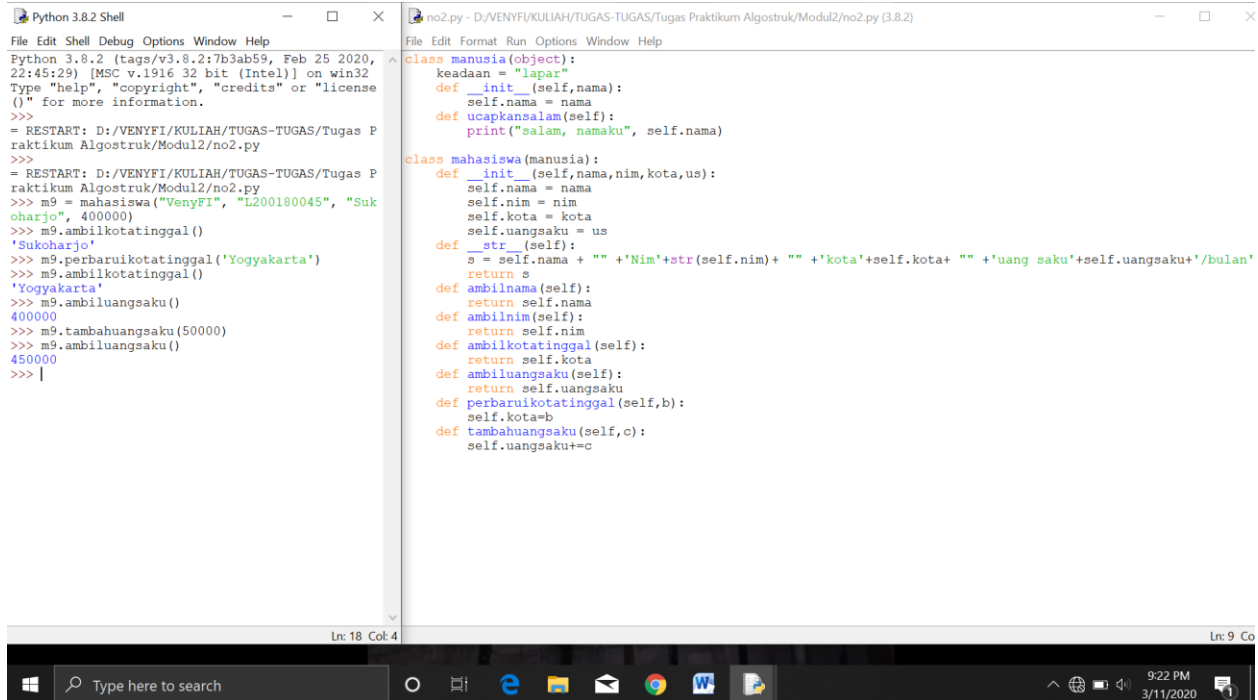
```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bi
t (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no
1.py
>>> p9 = pesan ('Indonesia adalah negeri yang indah')
>>> p9.apakahterkandung('age')
False
>>> p9.apakahterkandung('eka')
False
>>> p10 = pesan('Surakarta')
>>> p10.hitungkonsonan()
5
>>> p10.hitungvokal()
4
>>> |
```

no1.py - D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no1.p...

```
File Edit Format Run Options Window Help
class pesan(object):
    def __init__(self,a):
        self.a = a
    def apakahterkandung(self, b):
        return b in self.a
    def hitungkonsonan(self):
        itung = 0
        vokal = ["a","i","u","e","o","A","I","U","E","O"]
        for i in self.a:
            if i not in vokal:
                itung+=1
        return itung
    def hitungvokal(self):
        itung = 0
        vokal = ["a","i","u","e","o","A","I","U","E","O"]
        for i in self.a:
            if i in vokal:
                itung+=1
        return itung
```

The taskbar at the bottom shows the Windows Start button, a search bar, and several application icons. The system clock in the bottom right corner indicates the time is 9:12 PM on 3/11/2020.

No 2



```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas P
raktikum Algostruk/Modul2/no2.py
>>>
= RESTART: D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas P
raktikum Algostruk/Modul2/no2.py
>>> m9 = mahasiswa("VenyFI", "L200180045", "Suk
oharjo", 400000)
>>> m9.ambilkotatinggal()
'Sukoharjo'
>>> m9.perbaruikotatinggal('Yogyakarta')
>>> m9.ambilkotatinggal()
'Yogyakarta'
>>> m9.ambiliuangsaku()
400000
>>> m9.tambahuangsaku(50000)
>>> m9.ambiliuangsaku()
450000
>>> |

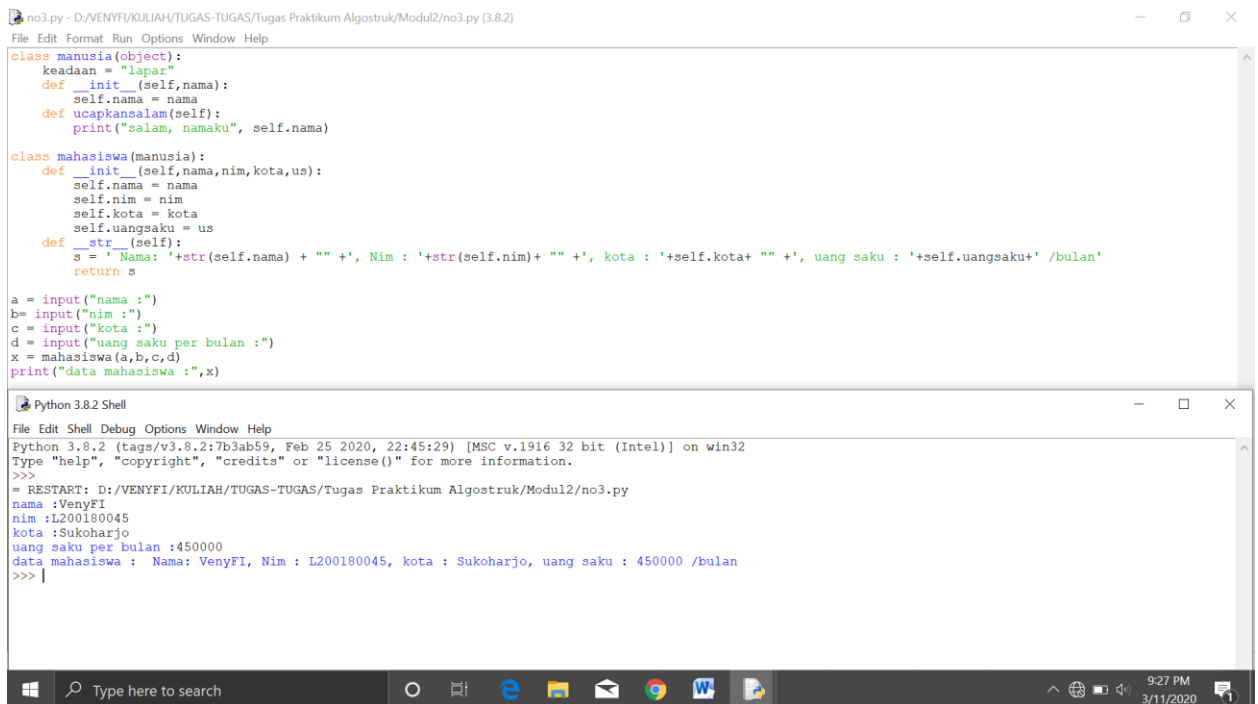
no2.py - D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no2.py (3.8.2)
File Edit Format Run Options Window Help
class manusia(object):
    keadaan = "lapar"
    def __init__(self,nama):
        self.nama = nama
    def ucapkansalam(self):
        print("salam, namaku", self.nama)

class mahasiswa(manusia):
    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)+ " " + 'kota'+self.kota+ " " + 'uang saku'+self.uangsaku+' /bulan'
        return s
    def ambilnama(self):
        return self.nama
    def ambilnim(self):
        return self.nim
    def ambilkotatinggal(self):
        return self.kota
    def ambiliuangsaku(self):
        return self.uangsaku
    def perbaruikotatinggal(self,b):
        self.kota=b
    def tambahuangsaku(self,c):
        self.uangsaku+=c

Ln: 18 Col: 4

Ln: 9 Co
```

No 3



```
no3.py - D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no3.py (3.8.2)
File Edit Format Run Options Window Help
class manusia(object):
    keadaan = "lapar"
    def __init__(self,nama):
        self.nama = nama
    def ucapkansalam(self):
        print("salam, namaku", self.nama)

class mahasiswa(manusia):
    def __init__(self,nama,nim,kota,us):
        self.nama = nama
        self.nim = nim
        self.kota = kota
        self.uangsaku = us
    def __str__(self):
        s = 'Nama: '+str(self.nama) + " " + ', Nim : '+str(self.nim)+ " " + ', kota : '+self.kota+ " " + ', uang saku : '+self.uangsaku+' /bulan'
        return s

a = input("nama :")
b = input("nim :")
c = input("kota :")
d = input("uang saku per bulan :")
x = mahasiswa(a,b,c,d)
print("data mahasiswa :",x)

Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no3.py
nama :VenyFI
nim :L200180045
kota :Sukoharjo
uang saku per bulan :450000
data mahasiswa : Nama: VenyFI, Nim : L200180045, kota : Sukoharjo, uang saku : 450000 /bulan
>>> |
```

No 4

```
*no4&5.py - D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no4&5.py (3.8.2)*
File Edit Format Run Options Window Help

class manusia(object):
    keadaan = "lapar"
    def __init__(self,nama):
        self.nama = nama
    def ucapkansalam(self):
        print("salam, namaku", self.nama)

class mahasiswa(manusia):
    def __init__(self,nama,nim,kota,us,lk=[]):
        self.nama = nama
        self.nim = nim
        self.kota = kota
        self.uangsaku = us
        self.lk = lk
    def __str__(self):
        s = self.nama + ',Nim'+str(self.nim)+' ,kota'+self.kota+',uang saku'+self.uangsaku+'/bulan'
        return s
    def ambilnama(self):
        return self.nama
    def ambilnim(self):
        return self.nim
    def ambilkotatinggal(self):
        return self.kota
    def ambiluangsaku(self):
        return self.uangsaku

    def perbaruikotatinggal(self,b):
        self.kota=b
    def tambahuangaku(self,c):
        self.uangsaku+=c

    def listkuliah(self):
        return self.lk
    def ambilkuliah(self,b):
        self.lk.append(b)

    def hapusmatakuliah(self,d):
        for x in self.lk:
            if d in self.lk:
                self.lk.remove(d)
            else:
                print("maaf anda tidak dapat menghapus matkul tersebut karena matkul tersebut tidak ada")

Ln: 31 Col: 0
```

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no4&5.py
>>> m1 = mahasiswa("VenyFI", "L200180045", "Sukoharjo", 400000)
>>> m1.listkuliah()
[]
>>> m1.ambilkuliah('Matematika Diskrit')
>>> m1.listkuliah()
['Matematika Diskrit']
>>> m1.ambilkuliah('Algoritma dan Struktur Data')
>>> m1.listkuliah()
['Matematika Diskrit', 'Algoritma dan Struktur Data']
>>> |

Ln: 14 Col: 4
```

No 5

```
*no4&5.py - D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no4&5.py (3.8.2)
File Edit Format Run Options Window Help

class manusia(object):
    keadaan = "lapar"
    def __init__(self,nama):
        self.nama = nama
    def ucapkansalam(self):
        print("salam, namaku", self.nama)

class mahasiswa(manusia):
    def __init__(self,nama,nim,kota,us,lk=[]):
        self.nama = nama
        self.nim = nim
        self.kota = kota
        self.uangsaku = us
        self.lk = lk
    def __str__(self):
        s = self.nama + ' Nim'+str(self.nim)+' kota'+self.kota+',uang saku'+self.uangsaku+'bulan'
        return s
    def ambilnama(self):
        return self.nama
    def ambilnim(self):
        return self.nim
    def ambilkotatinggal(self):
        return self.kota
    def ambiluangsaku(self):
        return self.uangsaku

    def perbaruikotatinggal(self,b):
        self.kota=b
    def tambahuangaku(self,c):
        self.uangsaku+=c

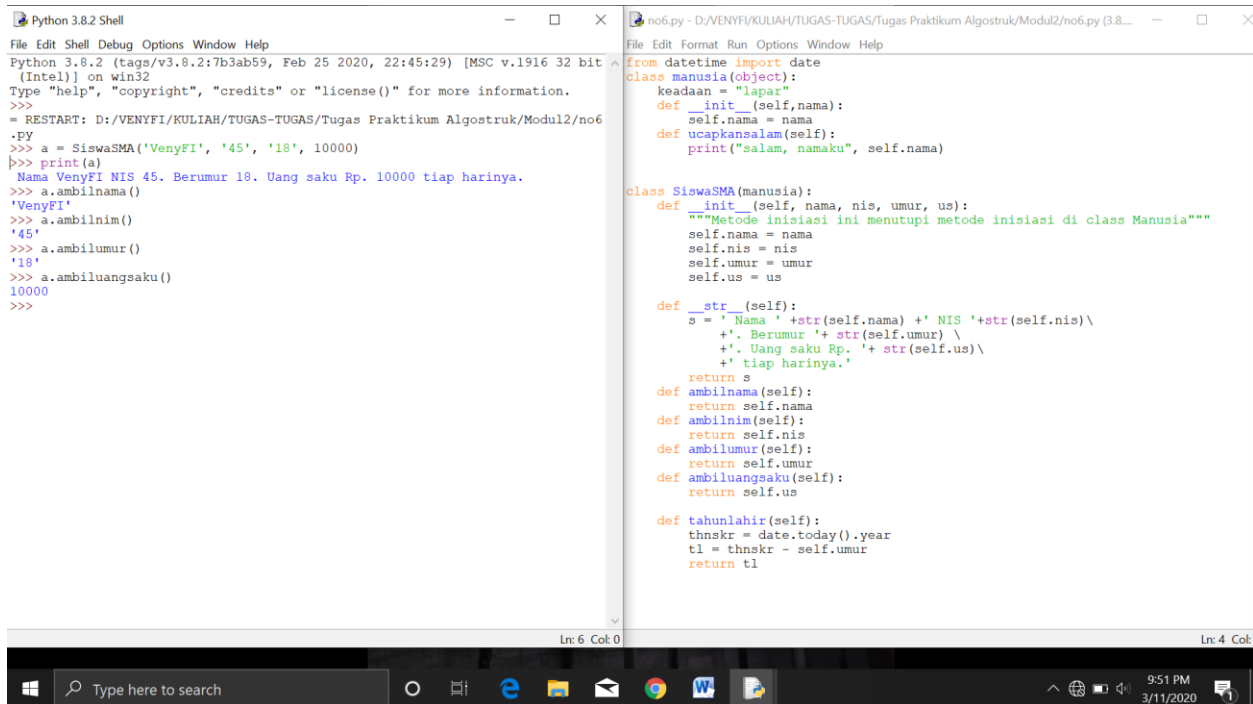
    def listkuliah(self):
        return self.lk
    def ambilkuliah(self,b):
        self.lk.append(b)

    def hapusmatakuliah(self,d):
        for x in self.lk:
            if d in self.lk:
                self.lk.remove(d)
            else:
                print("maaf anda tidak dapat menghapus matkul tersebut karena matkul tersebut tidak ada")
```

Ln: 31 Col: 0

```
>>> m1.listkuliah()
['Matematika Diskrit', 'Algoritma dan Struktur Data']
>>> m1.hapusmatakuliah('Matematika Diskrit')
>>> m1.listkuliah()
['Algoritma dan Struktur Data']
>>> m1.hapusmatakuliah('Jaringan Komputer')
maaf anda tidak dapat menghapus matkul tersebut karena matkul tersebut tidak ada
>>>
```

No 6



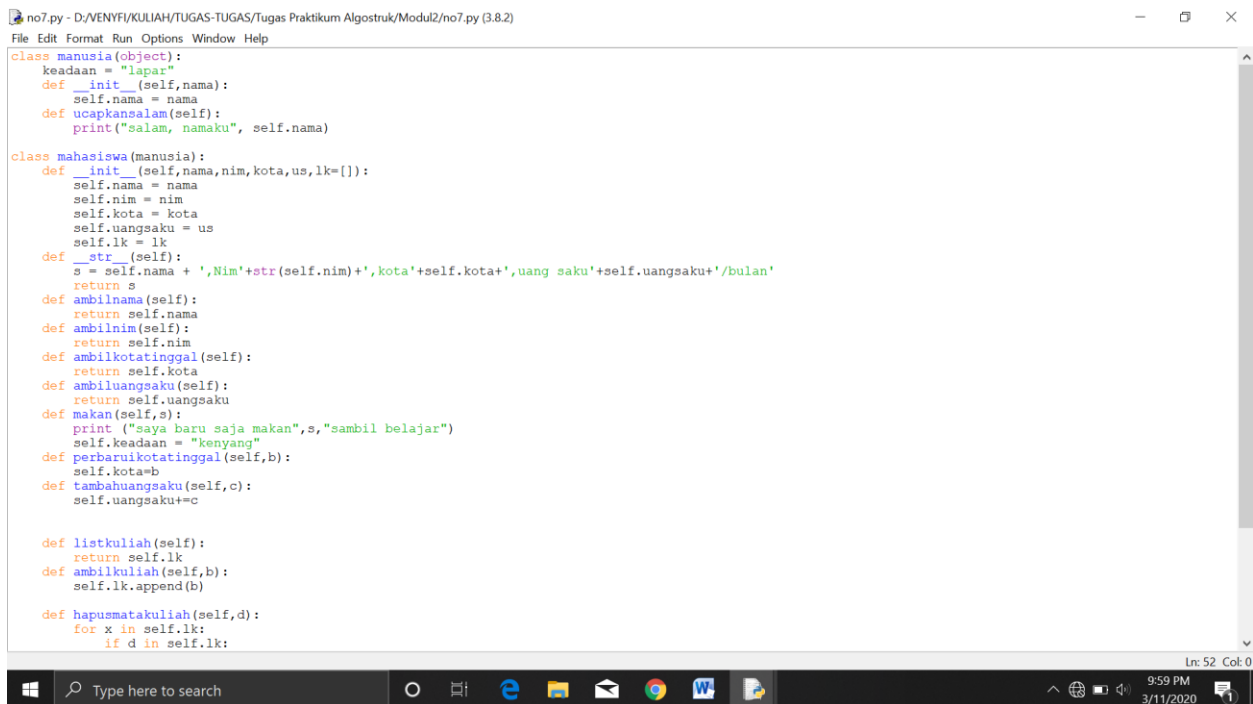
The image shows two windows from a Windows desktop. The left window is a Python 3.8.2 Shell with the following code:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit  
(Intel)] on win32  
(Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no6  
.PY  
>>> a = SiswaSMA('VenyFI', '45', '18', 10000)  
>>> print(a)  
Nama VenyFI NIS 45. Berumur 18. Uang saku Rp. 10000 tiap harinya.  
>>> a.ambilnama()  
'VenyFI'  
>>> a.ambilnim()  
'45'  
>>> a.ambilumur()  
'18'  
>>> a.ambiluangsaku()  
10000  
>>>
```

The right window is a Python script editor showing the code for the classes:

```
no6.py - D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no6.py (3.8...  
File Edit Format Run Options Window Help  
from datetime import date  
class manusia(object):  
    keadaan = "lapar"  
    def __init__(self,nama):  
        self.nama = nama  
    def ucapkansalam(self):  
        print("salam, namaku", self.nama)  
  
class SiswaSMA(manusia):  
    def __init__(self, nama, nis, umur, us):  
        """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""  
        self.nama = nama  
        self.nis = nis  
        self.umur = umur  
        self.us = us  
  
    def __str__(self):  
        s = 'Nama ' +str(self.nama) + ' NIS '+str(self.nis)\  
            +'. Berumur '+ str(self.umur) \  
            +'. Uang saku Rp. '+ str(self.us)\  
            +' tiap harinya.'  
        return s  
    def ambilnama(self):  
        return self.nama  
    def ambilnim(self):  
        return self.nis  
    def ambilumur(self):  
        return self.umur  
    def ambiluangsaku(self):  
        return self.us  
  
    def tahunlahir(self):  
        thnskr = date.today().year  
        tl = thnskr - self.umur  
        return tl
```

No 7



The image shows a Python script editor window with the following code:

```
no7.py - D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no7.py (3.8.2)  
File Edit Format Run Options Window Help  
class manusia(object):  
    keadaan = "lapar"  
    def __init__(self,nama):  
        self.nama = nama  
    def ucapkansalam(self):  
        print("salam, namaku", self.nama)  
  
class mahasiswa(manusia):  
    def __init__(self,nama,nim,kota,us,lk=[]):  
        self.nama = nama  
        self.nim = nim  
        self.kota = kota  
        self.uangsaku = us  
        self.lk = lk  
    def __str__(self):  
        s = self.nama + ',Nim'+str(self.nim)+' ,kota'+self.kota+',uang saku'+self.uangsaku+'/bulan'  
        return s  
    def ambilnama(self):  
        return self.nama  
    def ambilnim(self):  
        return self.nim  
    def ambilkotatinggal(self):  
        return self.kota  
    def ambiluangsaku(self):  
        return self.uangsaku  
    def makan(self,s):  
        print ("saya baru saja makan",s,"sambil belajar")  
        self.keadaan = "kenyang"  
    def perbaruikotatinggal(self,b):  
        self.kota=b  
    def tambahuangsaku(self,c):  
        self.uangsaku+=c  
  
    def listkuliah(self):  
        return self.lk  
    def ambilkuliah(self,b):  
        self.lk.append(b)  
  
    def hapusmatakuliah(self,d):  
        for x in self.lk:  
            if d in self.lk:
```

```
no7.py - D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no7.py (3.8.2)
File Edit Format Run Options Window Help

self.nim = nim
self.kota = kota
self.uangsaku = us
self.lk = lk
def __str__(self):
    s = self.nama + ',Nim'+str(self.nim)+' ,kota'+self.kota+',uang saku'+self.uangsaku+'/bulan'
    return s
def ambilnama(self):
    return self.nama
def ambilnim(self):
    return self.nim
def ambilkotatinggal(self):
    return self.kota
def ambiluangsaku(self):
    return self.uangsaku
def makan(self,s):
    print ("saya baru saja makan",s,"sambil belajar")
    self.keadaan = "kenyang"
def perbaruikotatinggal(self,b):
    self.kota=b
def tambahuangaku(self,c):
    self.uangsaku+=c

def listkuliah(self):
    return self.lk
def ambilkuliah(self,b):
    self.lk.append(b)

def hapusmatakuliah(self,d):
    for x in self.lk:
        if d in self.lk:
            self.lk.remove(d)
        else:
            print("maaf anda tidak dapat menghapus matkul tersebut karena matkul tersebut tidak ada")

class MhsTIF(mahasiswa):
    def katakanPy(self):
        print("python is cool.")
```

Ln: 52 Col: 0

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:/VENYFI/KULIAH/TUGAS-TUGAS/Tugas Praktikum Algostruk/Modul2/no7.py
>>> a = MhsTIF('VenyFI', 'L200180045', 'Sukoharjo', 400000)
>>> a.ambilkotatinggal() ##metode ini berasal dari class mahasiswa
'Sukoharjo'
>>> a.ambilkuliah('Matematika Diskrit') ##metode ini berasal dari class mahasiswa
>>> a.listkuliah()
['Matematika Diskrit']
>>> a.ambilnama() ##metode ini berasal dari class mahasiswa
'VenyFI'
>>> a.ambilnim() ##metode ini berasal dari class mahasiswa
'L200180045'
>>> a.hapusmatakuliah('Matematika') ##metode ini berasal dari class mahasiswa
maaf anda tidak dapat menghapus matkul tersebut karena matkul tersebut tidak ada
>>> a.katakanPy() ##metode ini berasal dari class MhsTIF
python is cool.
>>> a.ucapkansalam() ##metode ini berasal dari class manusia
salam, namaku VenyFI
>>> |
```

Ln: 21 Col: 4