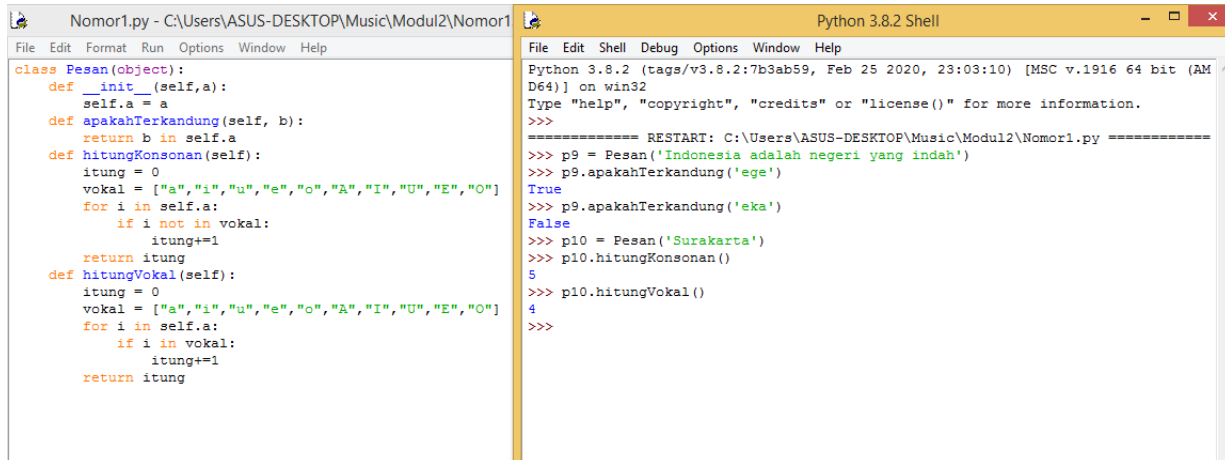


Nama : Anggit Astriani

NIM : L200180111

MODUL 2

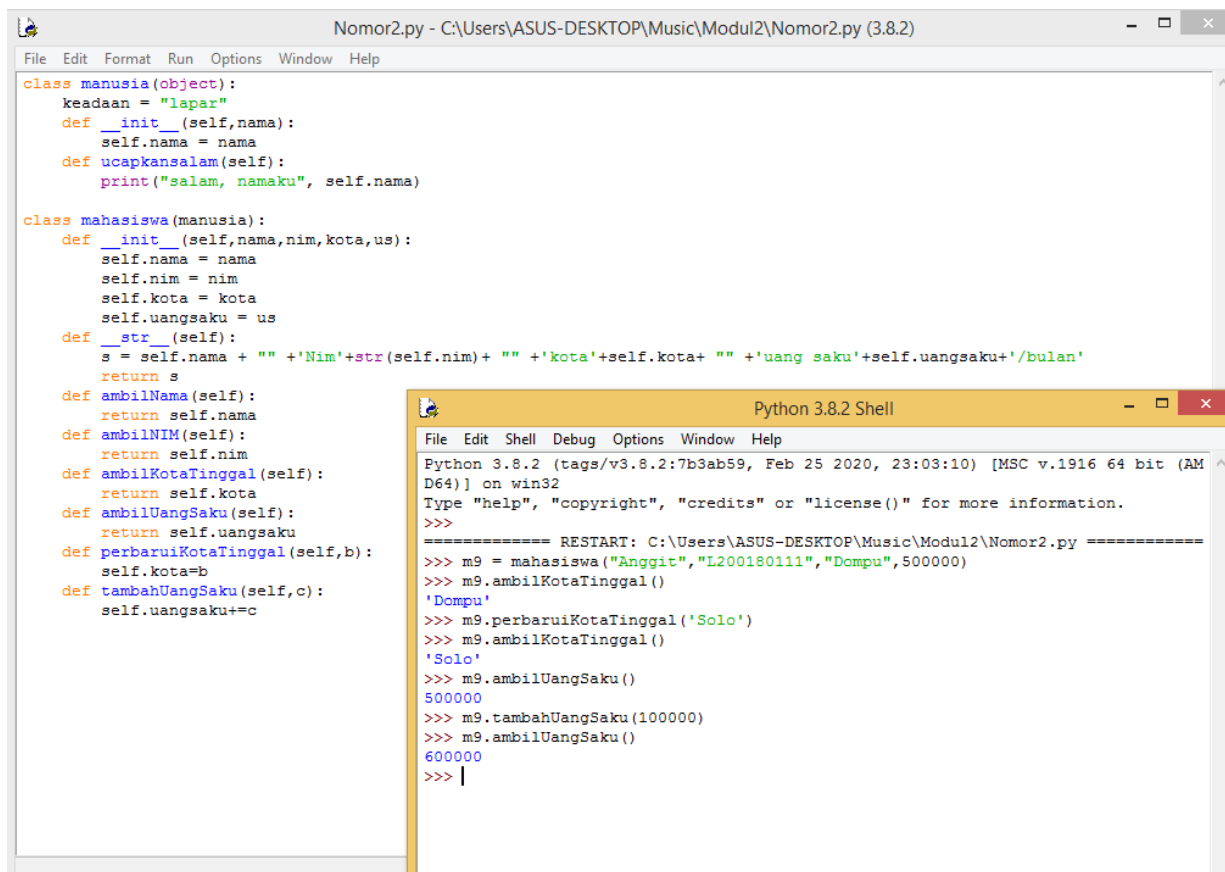
Nomor 1



```
Nomor1.py - C:\Users\ASUS-DESKTOP\Music\Modul2\Nomor1
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

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\Modul2\Nomor1.py =====
>>> p9 = Pesan('Indonesia adalah negeri yang indah')
>>> p9.apakahTerkandung('ege')
True
>>> p9.apakahTerkandung('eka')
False
>>> p10 = Pesan('Surakarta')
>>> p10.hitungKonsonan()
5
>>> p10.hitungVokal()
4
>>>
```

Nomor 2

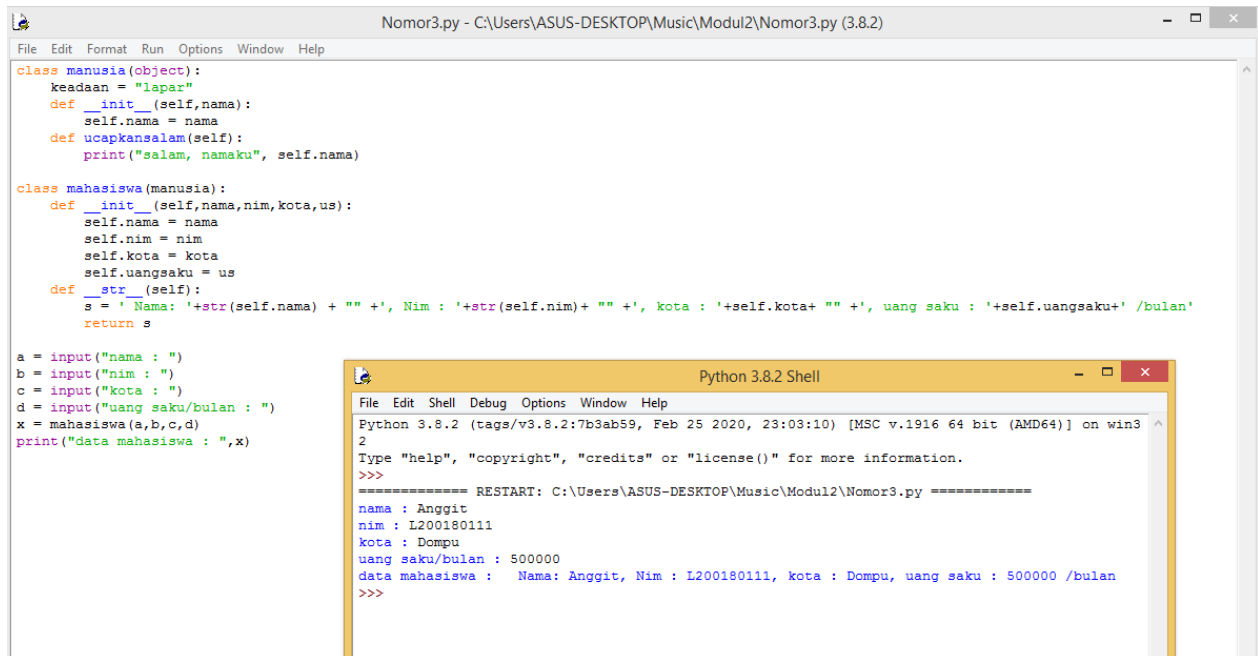


```
Nomor2.py - C:\Users\ASUS-DESKTOP\Music\Modul2\Nomor2.py (3.8.2)
class manusia(object):
    keadaan = "lapar"
    def __init__(self, nama):
        self.nama = nama
    def ucapkansalam(self):
        print("salam, namaku", self.nama)

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 ambilUangSaku(self):
        return self.uangsaku
    def perbaruiKotaTinggal(self, b):
        self.kota = b
    def tambahUangSaku(self, c):
        self.uangsaku += c

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\Modul2\Nomor2.py =====
>>> m9 = mahasiswa("Anggit", "L200180111", "Dompur", 500000)
>>> m9.ambilKotaTinggal()
'Dompur'
>>> m9.perbaruiKotaTinggal('Solo')
>>> m9.ambilKotaTinggal()
'Solo'
>>> m9.ambilUangSaku()
500000
>>> m9.tambahUangSaku(100000)
>>> m9.ambilUangSaku()
600000
>>> |
```

Nomor 3



```
Nomor3.py - C:\Users\ASUS-DESKTOP\Music\Modul2\Nomor3.py (3.8.2)
File Edit Format Run Options Window Help

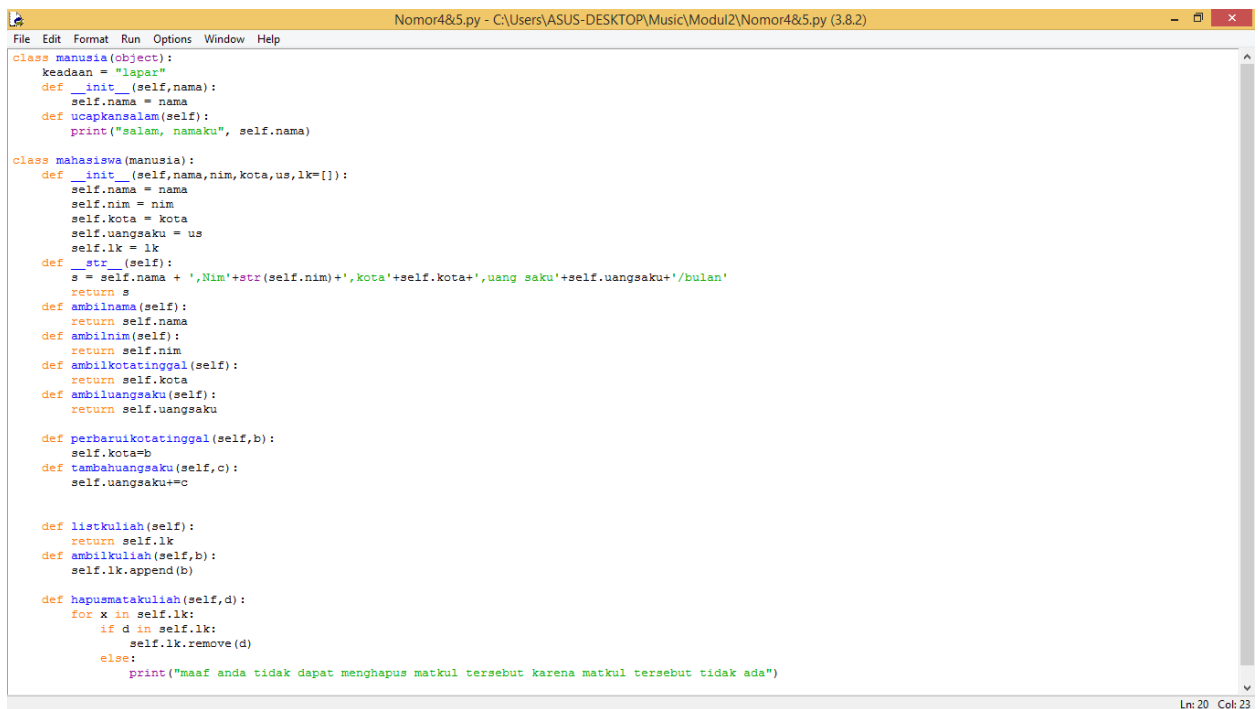
class manusia(object):
    keadaan = "lapar"
    def __init__(self,nama):
        self.nama = nama
    def ucapkansalam(self):
        print("salam, namaku", self.nama)

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/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, 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\Modul2\Nomor3.py =====
nama : Anggit
nim : L200180111
kota : Dompus
uang saku/bulan : 500000
data mahasiswa :  Nama: Anggit, Nim : L200180111, kota : Dompus, uang saku : 500000 /bulan
>>>
```

Nomor 4&5 (Source Code...)



```
Nomor4&5.py - C:\Users\ASUS-DESKTOP\Music\Modul2\Nomor4&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 perbarukotatinggal(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")
```

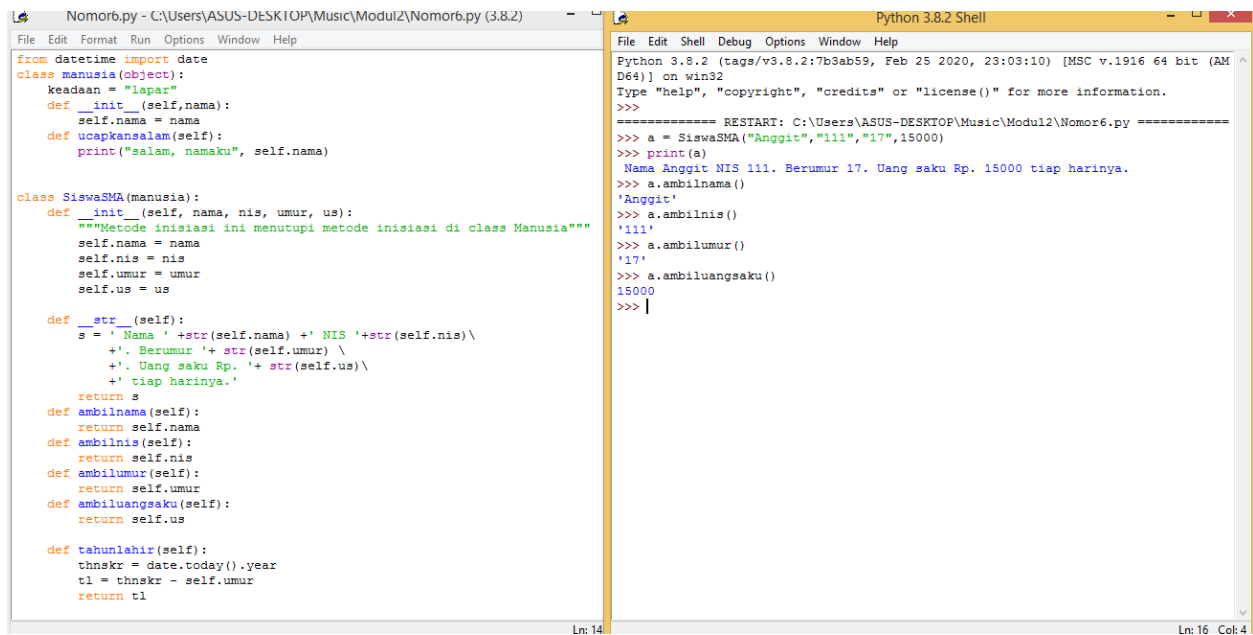
Nomor 4 (Run)

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
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\Modul2\Nomor4&5.py =====
>>> m1 = mahasiswa("Anggit", "L200180111", "Dompu", 500000)
>>> m1.listkuliah()
[]
>>> m1.ambilkuliah('Matematika Diskrit')
>>> m1.listkuliah()
['Matematika Diskrit']
>>> m1.ambilkuliah('Algoritma dan Struktur Data')
>>> m1.listkuliah()
['Matematika Diskrit', 'Algoritma dan Struktur Data']
>>> |
```

Nomor 5 (Run)

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
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\Modul2\Nomor4&5.py =====
>>> m1 = mahasiswa("anggit", "111", "sd", 232)
>>> m1.ambilkuliah('Matematika Diskrit')
>>> m1.ambilkuliah('Algoritma dan Struktur Data')
>>> m1.listkuliah()
['Matematika Diskrit', 'Algoritma dan Struktur Data']
>>> m1.hapusmatakuliah('Matematika Diskrit')
>>> m1.listkuliah()
['Algoritma dan Struktur Data']
>>> m1.hapusmatakuliah('Kalkulus')
maaf anda tidak dapat menghapus matkul tersebut karena matkul tersebut tidak ada
>>> |
```

Nomor 6



The screenshot shows a Python IDE with two windows. The left window, titled 'Nomor6.py - C:\Users\ASUS-DESKTOP\Music\Modul2\Nomor6.py (3.8.2)', contains the following code:

```
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

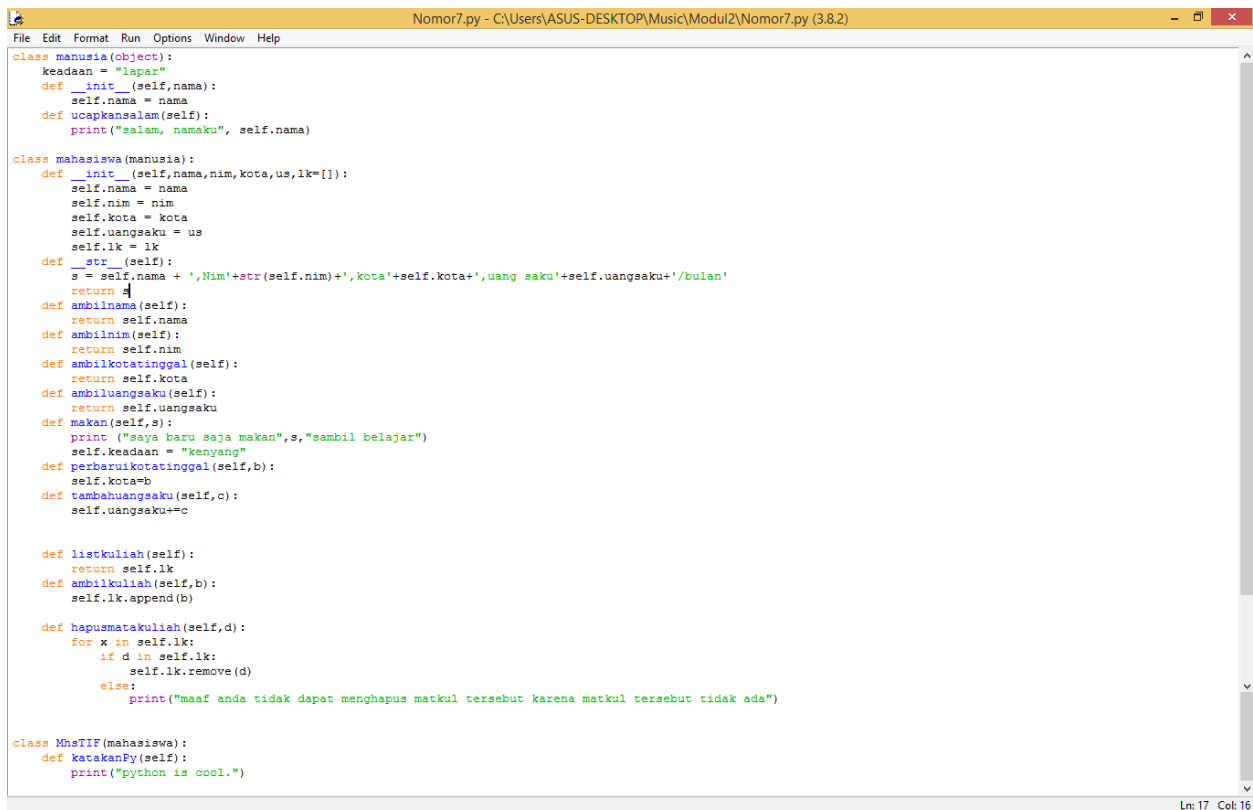
    def __str__(self):
        s = 'Nama ' +str(self.nama) + ' NIS '+str(self.nis)\
            +'. Berumur ' + str(self.umur) \
            +'. Uang saku Rp. ' + str(self.us)\
            + ' tiap harinya.'
        return s
    def ambilnama(self):
        return self.nama
    def ambilnis(self):
        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
```

The right window, titled 'Python 3.8.2 Shell', shows the execution of the code:

```
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\Modul2\Nomor6.py =====
>>> a = SiswaSMA("Anggit","111","17",15000)
>>> print(a)
Nama Anggit NIS 111. Berumur 17. Uang saku Rp. 15000 tiap harinya.
>>> a.ambilnama()
'Anggit'
>>> a.ambilnis()
'111'
>>> a.ambilumur()
'17'
>>> a.ambiluangaku()
15000
>>> |
```

Nomor 7



The screenshot shows a Python IDE with a single window titled 'Nomor7.py - C:\Users\ASUS-DESKTOP\Music\Modul2\Nomor7.py (3.8.2)'. The code is as follows:

```
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 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.")
```

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
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\Modul2\Nomor7.py =====
>>> a = MhsTIF("Anggit", "111", "Dompu", 500000)
>>> a.ambilkotatatinggal() #Metode ini berasal dari class mahasiswa
'Dompu'
>>> a.ambilkuliah('Matematika Diskrit') #Metode ini berasal dari class mahasiswa
>>> a.listkuliah()
['Matematika Diskrit']
>>> a.ambilnama() #Metode ini berasal dari class mahasiswa
'Anggit'
>>> a.ambilnim() #Metode ini berasal dari class mahasiswa
'111'
>>> 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 Anggit
>>> |
```