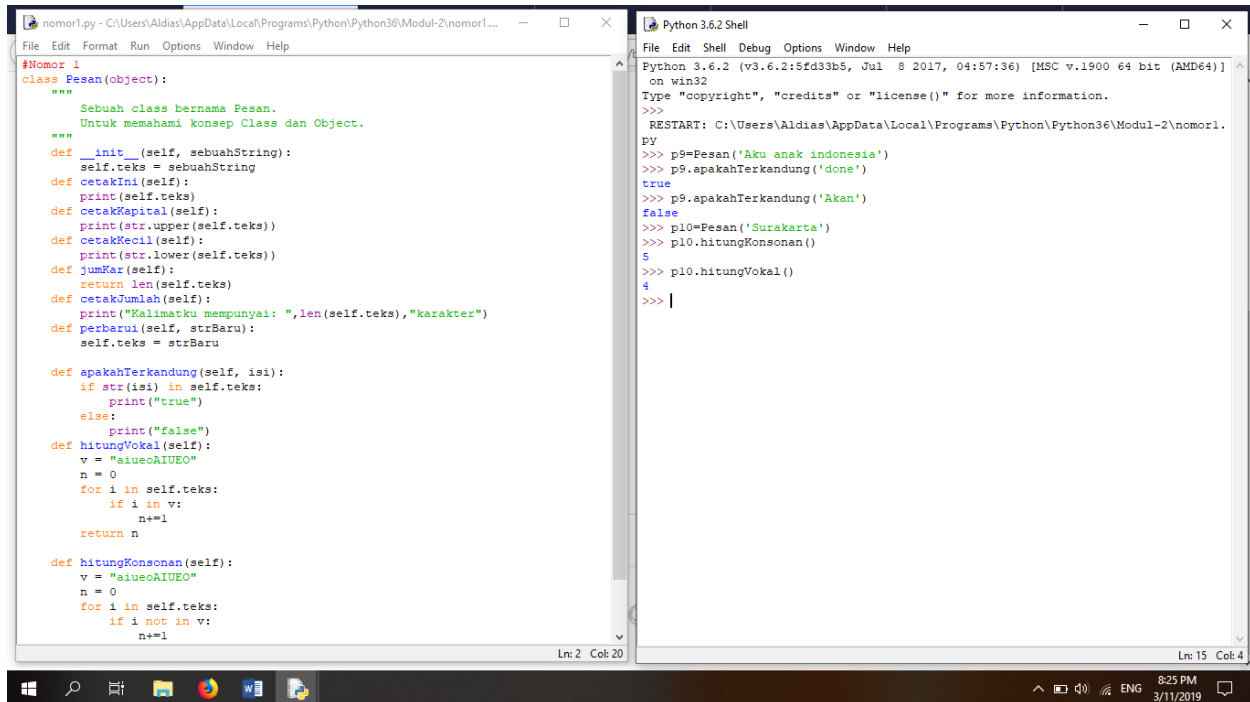


NAMA : ALDIAS IBNU HABIB | NIM : L200170166 | KELAS : E

## Nomor 1.



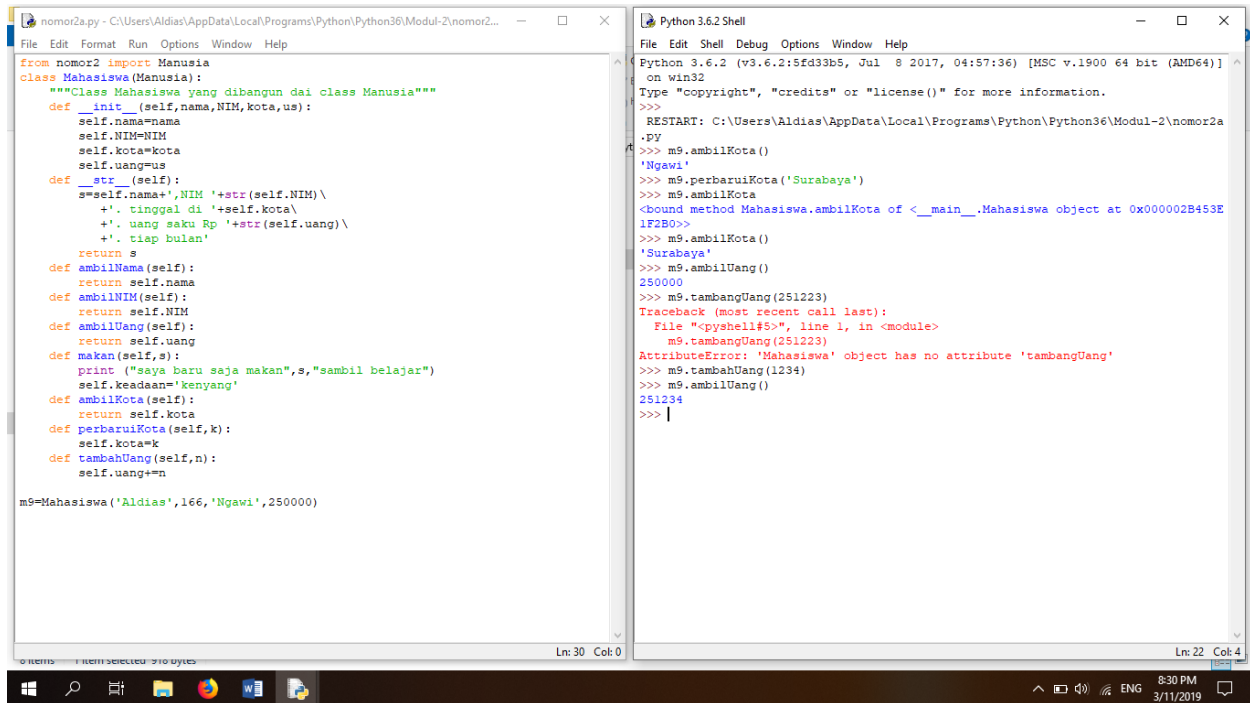
```
nomor1.py - C:\Users\Aldias\AppData\Local\Programs\Python\Python36\Modul-2\nomor1...
File Edit Format Run Options Window Help

#Nomor 1
class Pesan(object):
    """
    Sebuah class bernama Pesan.
    Untuk memahami konsep Class dan Object.
    """
    def __init__(self, sebuahString):
        self.teks = sebuahString
    def cetakIni(self):
        print(self.teks)
    def cetakKapital(self):
        print(str.upper(self.teks))
    def cetakKecil(self):
        print(str.lower(self.teks))
    def jumKar(self):
        return len(self.teks)
    def cetakJumlah(self):
        print("Kalimatku mempunyai: ",len(self.teks),"karakter")
    def perbarui(self, strBaru):
        self.teks = strBaru

    def apakahTerandung(self, isi):
        if str(isi) in self.teks:
            print("true")
        else:
            print("false")
    def hitungVokal(self):
        v = "aiueoAIUEO"
        n = 0
        for i in self.teks:
            if i in v:
                n+=1
        return n
    def hitungKonsonan(self):
        v = "aiueoAIUEO"
        n = 0
        for i in self.teks:
            if i not in v:
                n+=1

Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:57:36) [MSC v.1900 64 bit (AMD64)]
on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\Aldias\AppData\Local\Programs\Python\Python36\Modul-2\nomor1.
.py
>>> p9=Pesan('Aku anak indonesia')
>>> p9.apakahTerandung('done')
true
>>> p9.apakahTerandung('Akan')
false
>>> p10=Pesan('Surakarta')
>>> p10.hitungKonsonan()
5
>>> p10.hitungVokal()
4
>>> |
```

## Nomor 2.



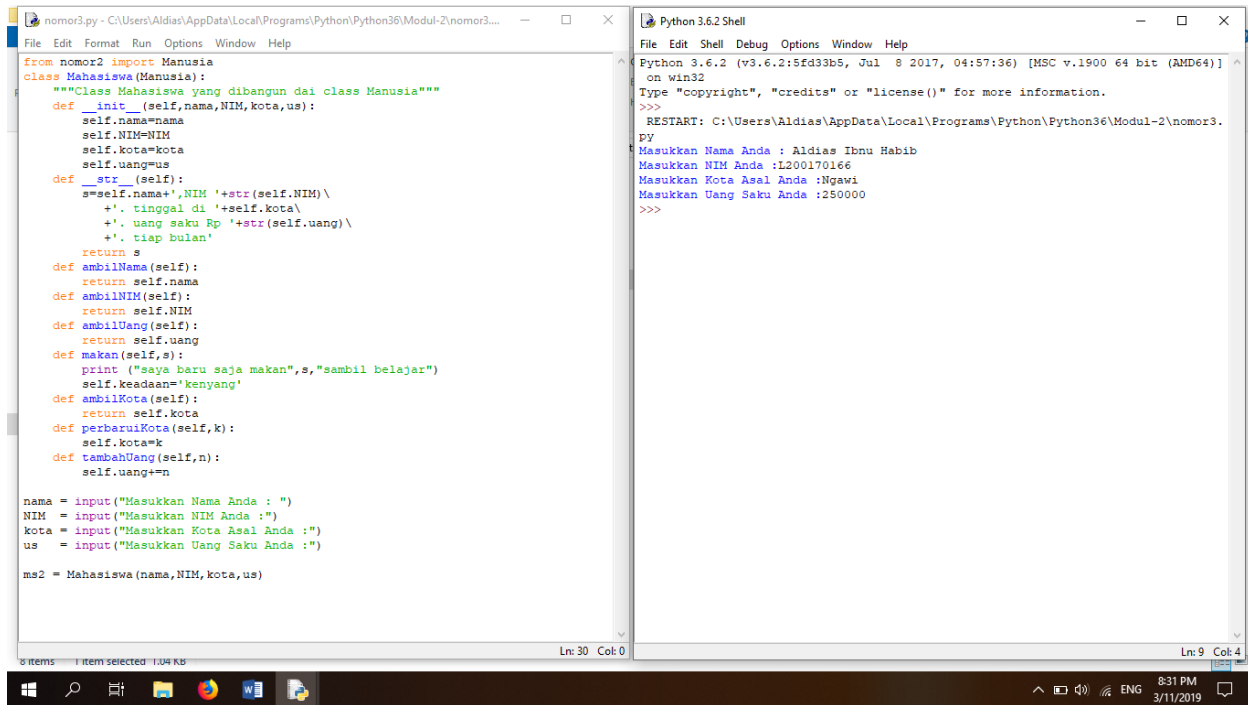
```
nomor2a.py - C:\Users\Aldias\AppData\Local\Programs\Python\Python36\Modul-2\nomor2...
File Edit Format Run Options Window Help

from nomor2 import Manusia
class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dai class Manusia"""
    def __init__(self, nama, NIM, kota, us):
        self.nama=nama
        self.NIM=NIM
        self.kota=kota
        self.uang=us
    def __str__(self):
        s=self.nama+',NIM '+str(self.NIM)\
          +'. tinggal di '+self.kota\
          +'. uang saku Rp '+str(self.uang)\
          +'. tiap bulan'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUang(self):
        return self.uang
    def makan(self, s):
        print ("saya baru saja makan",s,"sambil belajar")
        self.keadaan='kenyang'
    def ambilKota(self):
        return self.kota
    def perbaruiKota(self, k):
        self.kota=k
    def tambahUang(self, n):
        self.uang+=n

m9=Mahasiswa('Aldias', 166, 'Ngawi', 250000)

Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:57:36) [MSC v.1900 64 bit (AMD64)]
on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\Aldias\AppData\Local\Programs\Python\Python36\Modul-2\nomor2a
.py
>>> m9.ambilKota()
'Ngawi'
>>> m9.perbaruiKota('Surabaya')
>>> m9.ambilKota
<bound method Mahasiswa.ambilKota of <_main_.Mahasiswa object at 0x00002B453E1F2B0>
>>> m9.ambilKota()
'Surabaya'
>>> m9.ambilUang()
250000
>>> m9.tambahUang(251223)
Traceback (most recent call last):
  File "<pyshell#5>", line 1, in <module>
    m9.tambahUang(251223)
AttributeError: 'Mahasiswa' object has no attribute 'tambahUang'
>>> m9.tambahUang(1234)
251234
>>> |
```

### Nomor 3.



The screenshot shows a Python IDE with two windows. The left window, titled 'nomor3.py', contains a Python class named 'Mahasiswa' that inherits from 'Manusia'. The class has attributes 'nama', 'NIM', 'kota', and 'uang', and methods for initialization, string representation, and getters/setters. The right window, titled 'Python 3.6.2 Shell', shows the execution of the program. It prompts the user to enter their name, NIM, city, and pocket money, and then displays the resulting student object.

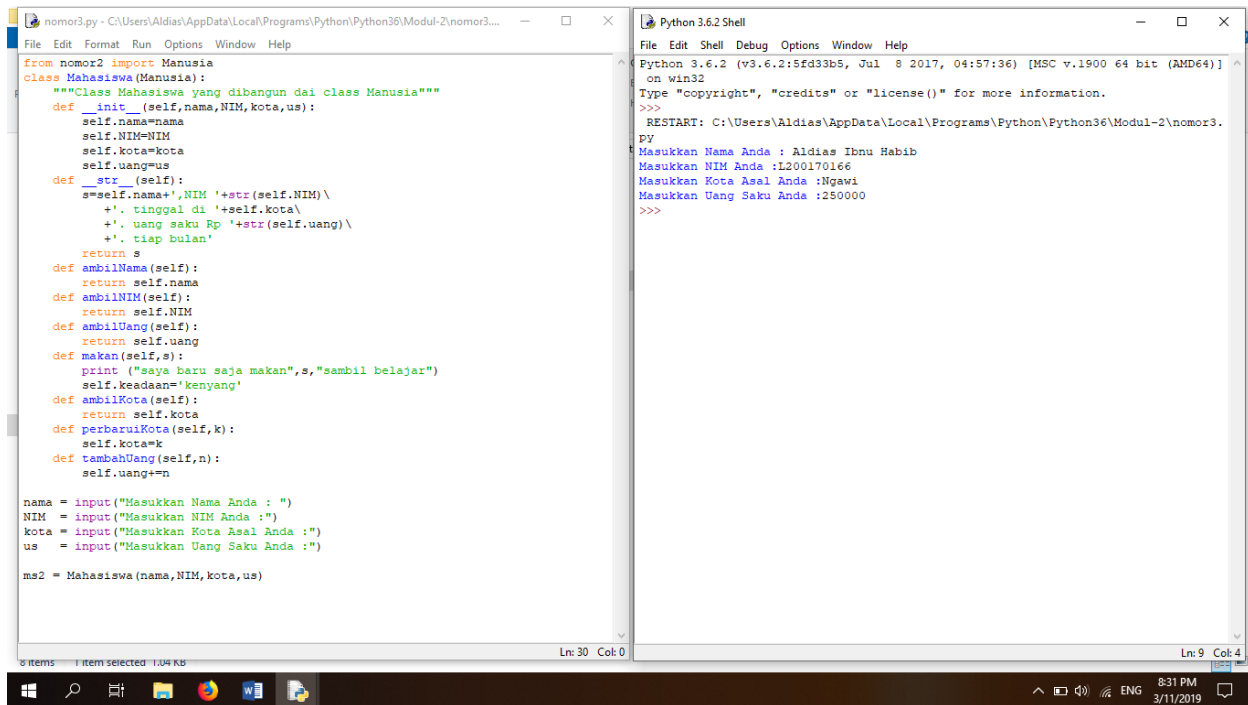
```
from nomor2 import Manusia
class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dai class Manusia"""
    def __init__(self,nama,NIM,kota,us):
        self.nama=nama
        self.NIM=NIM
        self.kota=kota
        self.uang=us
    def __str__(self):
        s=self.nama+',NIM '+str(self.NIM)\
          +'. tinggal di '+self.kota\
          +'. uang saku Rp '+str(self.uang)\
          +'. tiap bulan'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUang(self):
        return self.uang
    def makan(self,s):
        print ("saya baru saja makan",s,"sambil belajar")
        self.keadaan='kenyang'
    def ambilKota(self):
        return self.kota
    def perbaruiKota(self,k):
        self.kota=k
    def tambahUang(self,n):
        self.uang+=n

nama = input("Masukkan Nama Anda : ")
NIM = input("Masukkan NIM Anda : ")
kota = input("Masukkan Kota Asal Anda : ")
us = input("Masukkan Uang Saku Anda : ")

ms2 = Mahasiswa(nama,NIM,kota,us)
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:57:36) [MSC v.1900 64 bit (AMD64)]
on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\Aldias\AppData\Local\Programs\Python\Python36\Modul-2\nomor3.
py
Masukkan Nama Anda : Aldias Ibnu Habib
Masukkan NIM Anda : L200170166
Masukkan Kota Asal Anda : Ngawi
Masukkan Uang Saku Anda : 250000
>>>
```

### Nomor 4.



The screenshot shows a Python IDE with two windows. The left window, titled 'nomor3.py', contains a Python class named 'Mahasiswa' that inherits from 'Manusia'. The class has attributes 'nama', 'NIM', 'kota', and 'uang', and methods for initialization, string representation, and getters/setters. The right window, titled 'Python 3.6.2 Shell', shows the execution of the program. It prompts the user to enter their name, NIM, city, and pocket money, and then displays the resulting student object.

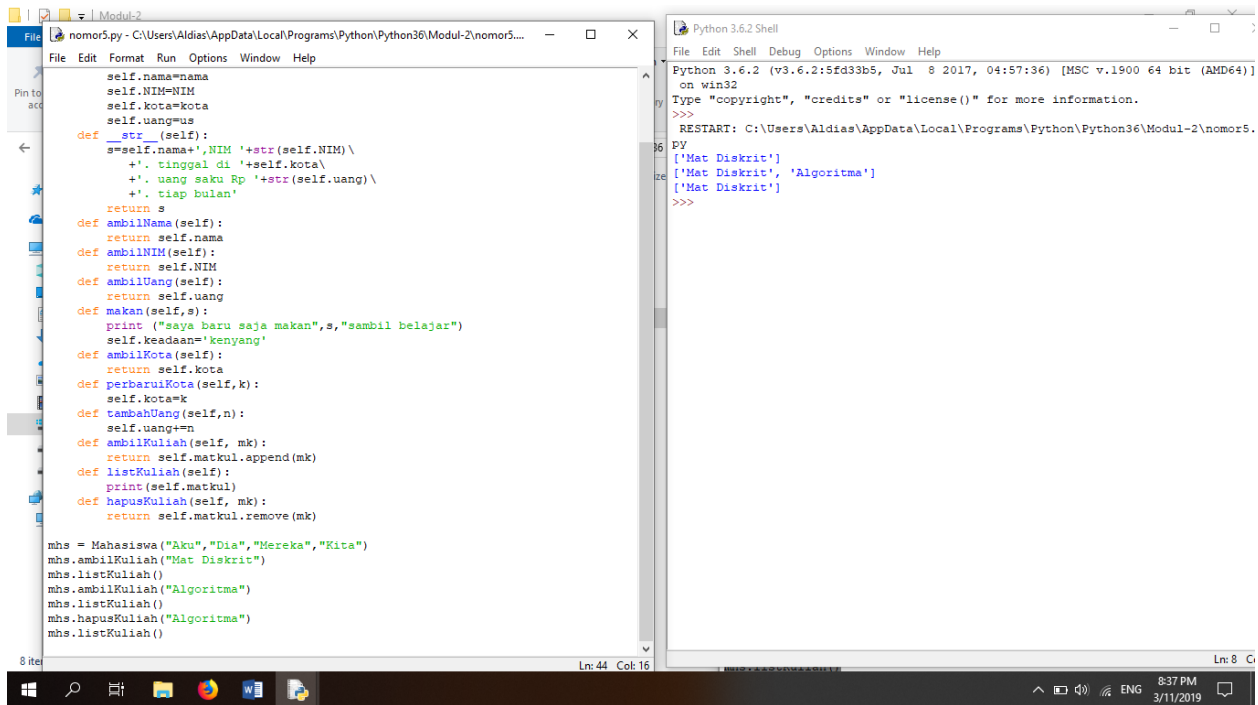
```
from nomor2 import Manusia
class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dai class Manusia"""
    def __init__(self,nama,NIM,kota,us):
        self.nama=nama
        self.NIM=NIM
        self.kota=kota
        self.uang=us
    def __str__(self):
        s=self.nama+',NIM '+str(self.NIM)\
          +'. tinggal di '+self.kota\
          +'. uang saku Rp '+str(self.uang)\
          +'. tiap bulan'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUang(self):
        return self.uang
    def makan(self,s):
        print ("saya baru saja makan",s,"sambil belajar")
        self.keadaan='kenyang'
    def ambilKota(self):
        return self.kota
    def perbaruiKota(self,k):
        self.kota=k
    def tambahUang(self,n):
        self.uang+=n

nama = input("Masukkan Nama Anda : ")
NIM = input("Masukkan NIM Anda : ")
kota = input("Masukkan Kota Asal Anda : ")
us = input("Masukkan Uang Saku Anda : ")

ms2 = Mahasiswa(nama,NIM,kota,us)
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:57:36) [MSC v.1900 64 bit (AMD64)]
on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\Aldias\AppData\Local\Programs\Python\Python36\Modul-2\nomor3.
py
Masukkan Nama Anda : Aldias Ibnu Habib
Masukkan NIM Anda : L200170166
Masukkan Kota Asal Anda : Ngawi
Masukkan Uang Saku Anda : 250000
>>>
```

## Nomor 5.



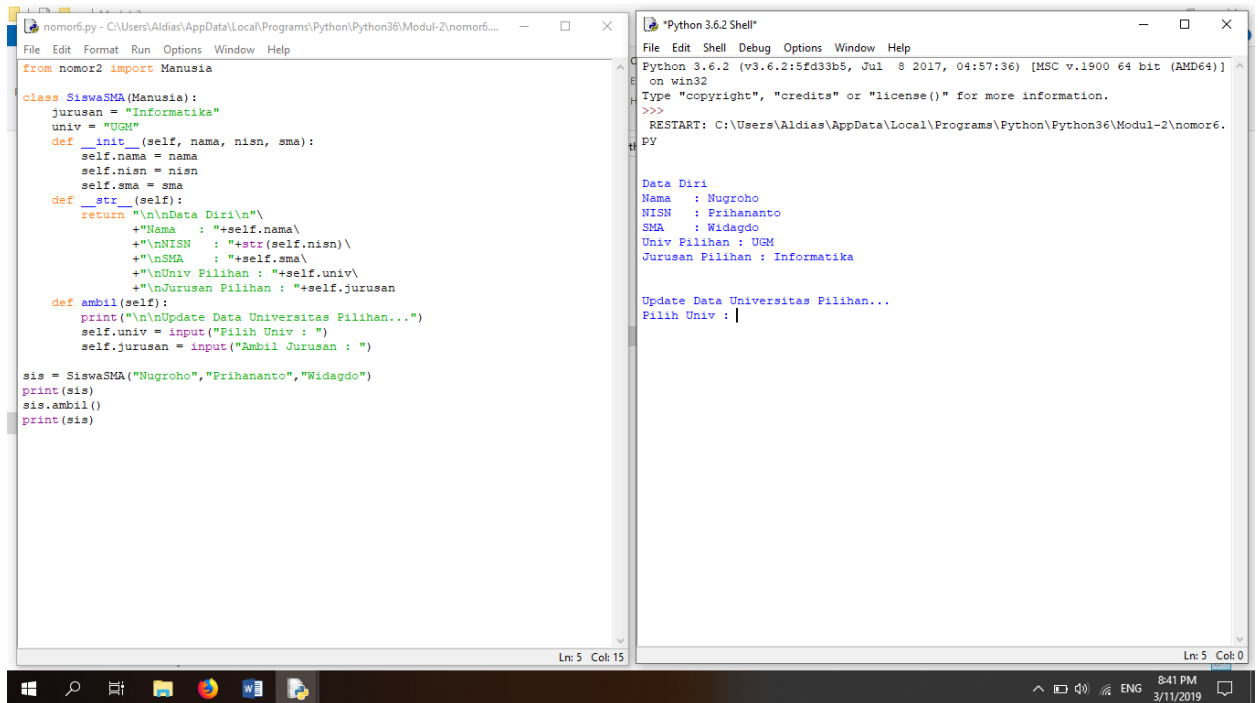
```
File Edit Format Run Options Window Help
nomor5.py - C:\Users\Aldias\AppData\Local\Programs\Python\Python36\Modul-2\nomor5...
self.nama=nama
self.NIM=NIM
self.kota=kota
self.uang=us

def __str__(self):
    s=self.nama+',NIM '+str(self.NIM)\
    +'. tinggal di '+self.kota\
    +'. uang saku Rp '+str(self.uang)\
    +'. tiap bulan'
    return s
def ambilNama(self):
    return self.nama
def ambilNIM(self):
    return self.NIM
def ambilUang(self):
    return self.uang
def makan(self,s):
    print ("saya baru saja makan",s,"sambil belajar")
    self.keadaan='kenyang'
def ambilKota(self):
    return self.kota
def perbaruiKota(self,k):
    self.kota=k
def tambahUang(self,n):
    self.Uang+=n
def ambilKuliah(self, mk):
    return self.matkul.append(mk)
def listKuliah(self):
    print(self.matkul)
def hapusKuliah(self, mk):
    return self.matkul.remove(mk)

mhs = Mahasiswa("Aku","Dia","Mereka","Kita")
mhs.ambilKuliah("Mat Diskrit")
mhs.listKuliah()
mhs.ambilKuliah("Algoritma")
mhs.listKuliah()
mhs.hapusKuliah("Algoritma")
mhs.listKuliah()

Python 3.6.2 Shell
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:57:36) [MSC v.1900 64 bit (AMD64)]
on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\Aldias\AppData\Local\Programs\Python\Python36\Modul-2\nomor5.
PY
['Mat Diskrit']
['Mat Diskrit', 'Algoritma']
['Mat Diskrit']
>>>
```

## Nomor 6.



```
File Edit Format Run Options Window Help
nomor6.py - C:\Users\Aldias\AppData\Local\Programs\Python\Python36\Modul-2\nomor6...
from nomor2 import Manusia

class SiswaSMA(Manusia):
    jurusan = "Informatika"
    univ = "UGM"
    def __init__(self, nama, nisan, sma):
        self.nama = nama
        self.nisan = nisan
        self.sma = sma
    def __str__(self):
        return "\n\nData Diri\n\
        + "Nama : "+self.nama\
        + "\nNISN : "+str(self.nisan)\
        + "\nSMA : "+self.sma\
        + "\nUniv Pilihan : "+self.univ\
        + "\nJurusan Pilihan : "+self.jurusan
    def ambil(self):
        print("\n\nUpdate Data Universitas Pilihan...")
        self.univ = input("Pilih Univ : ")
        self.jurusan = input("Ambil Jurusan : ")

sis = SiswaSMA("Nugroho","Prihananto","Widagdo")
print(sis)
sis.ambil()
print(sis)

Python 3.6.2 Shell
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:57:36) [MSC v.1900 64 bit (AMD64)]
on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\Aldias\AppData\Local\Programs\Python\Python36\Modul-2\nomor6.
PY

Data Diri
Nama : Nugroho
NISN : Prihananto
SMA : Widagdo
Univ Pilihan : UGM
Jurusan Pilihan : Informatika

Update Data Universitas Pilihan...
Pilih Univ : |
```