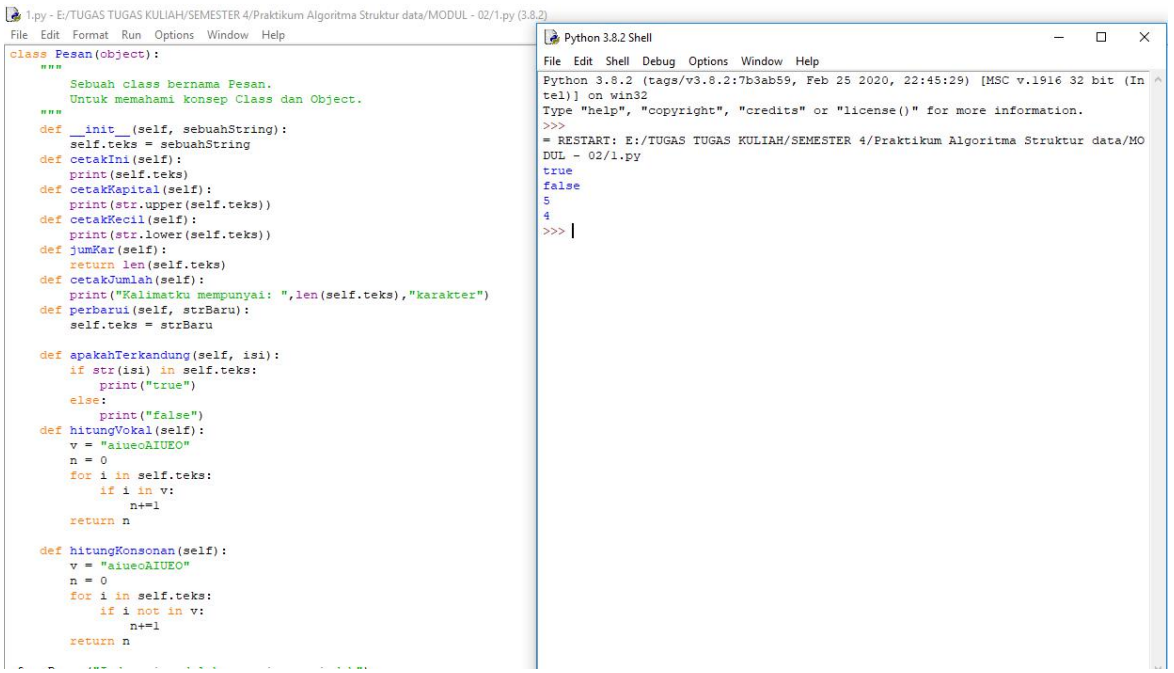
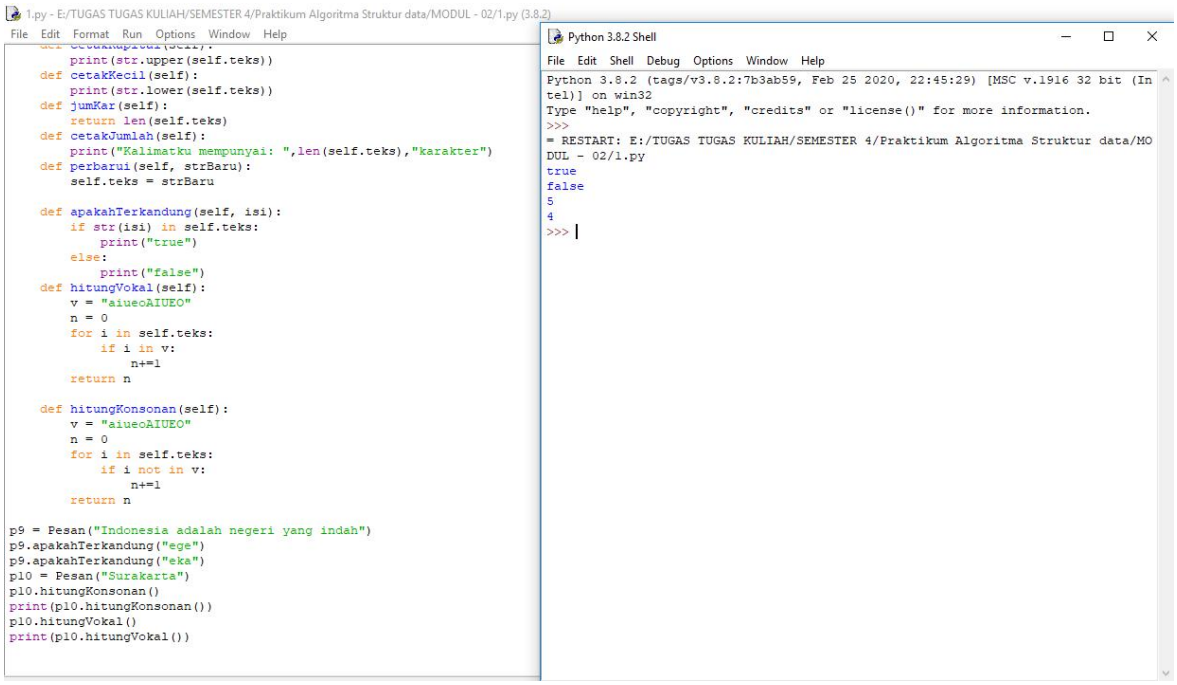
NAMA : NOVERA DYAH A.
NIM : L200180026
KELAS : B

MODUL 2

1. Coding Program





2. Coding Program

2.py - E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MODUL - 0...

File Edit Format Run Options Window Help

```
class Manusia(object):
    """Class manusia dengan inisiasi 'nama'"""
    keadaan='lapar'
    def __init__(self,nama):
        self.nama = nama
    def ucapSalam(self):
        print("halo namaku: ", self.nama)
    def makan(self,s):
        print("saya baru saja makan ", s)
        self.keadaan = 'kenyang'
    def olah(self,k):
        print('saya baru saja latihan', k)
        self.keadaan='lapar'
    def kali(self,n):
        return n*2

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
```

Ln: 9 Col: 41

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 (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MO
DUL - 02/2.py
>>> m9 = Mahasiswa('Novera',126,'Surabaya',27000)
>>> m9.ambilKota()
'Surabaya'
>>> m9.perbaruiKota('Sleman')
>>> m9.ambilKota()
'Sleman'
>>> m10 = Mahasiswa('Novera',126,'Surabaya',27000)
>>> m10.ambilUang()
27000
>>> m10.tambahUang(5000)
>>> m10.ambilUang()
32000
>>>
```

Ln: 17 Col: 4

2.py - E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MODUL - 0...

File Edit Format Run Options Window Help

```
        print("saya baru saja makan ", s)
        self.keadaan = 'kenyang'
    def olah(self,k):
        print('saya baru saja latihan', k)
        self.keadaan='lapar'
    def kali(self,n):
        return n*2

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
```

Ln: 9 Col: 41

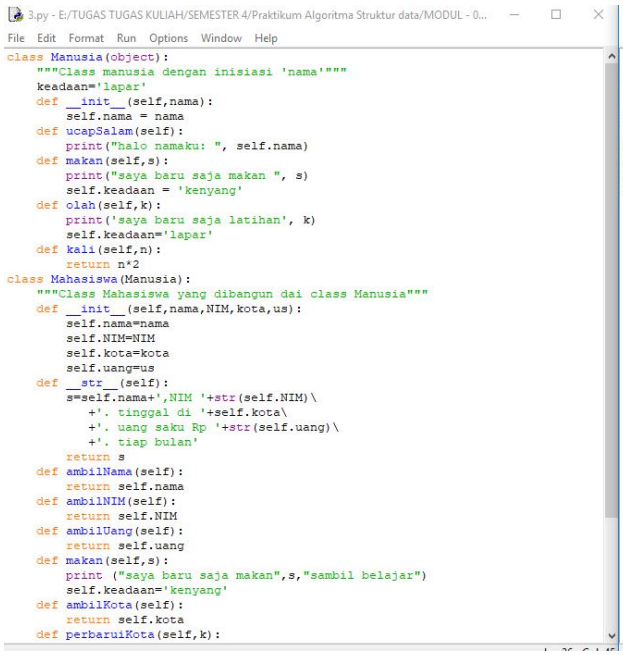
Python 3.8.2 Shell

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 (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MO
DUL - 02/2.py
>>> m9 = Mahasiswa('Novera',126,'Surabaya',27000)
>>> m9.ambilKota()
'Surabaya'
>>> m9.perbaruiKota('Sleman')
>>> m9.ambilKota()
'Sleman'
>>> m10 = Mahasiswa('Novera',126,'Surabaya',27000)
>>> m10.ambilUang()
27000
>>> m10.tambahUang(5000)
>>> m10.ambilUang()
32000
>>>
```

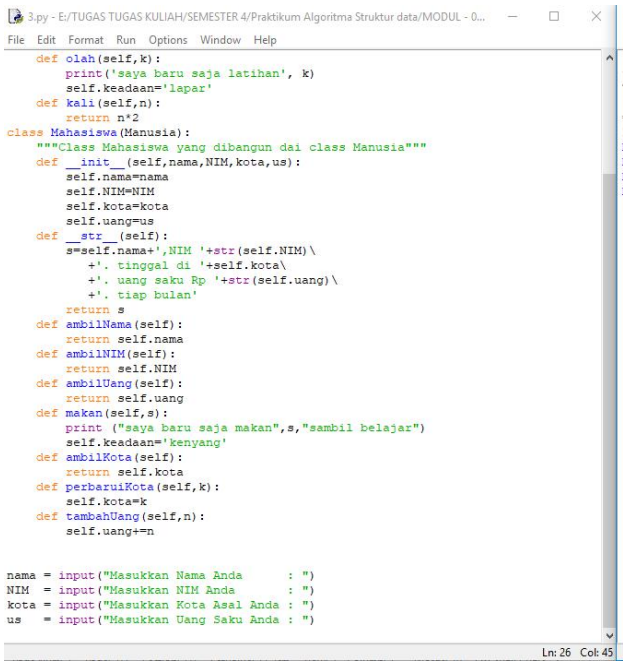
Ln: 17 Col: 4

3. Coding program

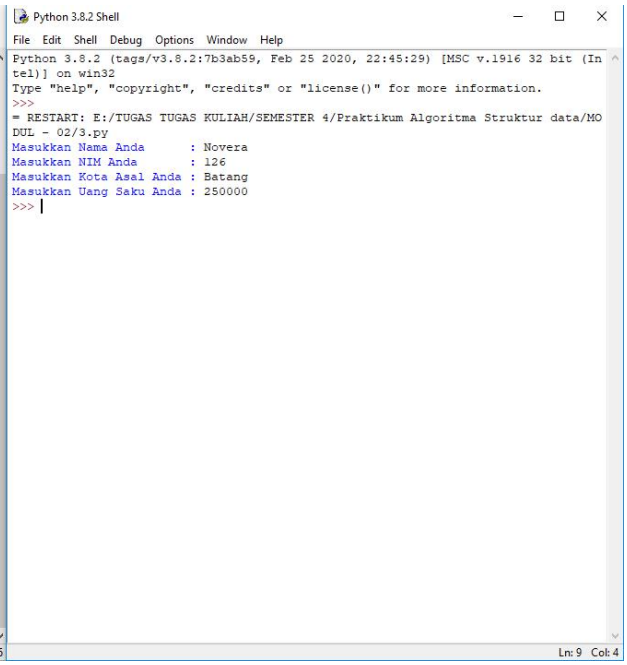


```
class Manusia(object):
    """Class manusia dengan inisiasi 'nama'"""
    keadaan='lapar'
    def __init__(self,nama):
        self.nama = nama
    def ucapSalam(self):
        print("halo namaku: ", self.nama)
    def makan(self,s):
        print("saya baru saja makan ", s)
        self.keadaan = 'kenyang'
    def olah(self,k):
        print('saya baru saja latihan', k)
        self.keadaan='lapar'
    def kali(self,n):
        return n*2
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):
```

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MO
DUL - 02/3.py
Masukkan Nama Anda       : Novera
Masukkan NIM Anda        : 126
Masukkan Kota Asal Anda : Batang
Masukkan Uang Saku Anda : 250000
>>>
```



```
    def olah(self,k):
        print('saya baru saja latihan', k)
        self.keadaan='lapar'
    def kali(self,n):
        return n*2
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 : ")
```



```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MO
DUL - 02/3.py
Masukkan Nama Anda       : Novera
Masukkan NIM Anda        : 126
Masukkan Kota Asal Anda : Batang
Masukkan Uang Saku Anda : 250000
>>>
```

4. Coding Program

4.py - E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MODUL - 0...

File Edit Format Run Options Window Help

```
class Manusia(object):
    """Class manusia dengan inisiasi 'nama'"""
    keadaan='lapar'
    def __init__(self,nama):
        self.nama = nama
    def ucapSalam(self):
        print("halo namaku: ", self.nama)
    def makan(self,s):
        print("saya baru saja makan ", s)
        self.keadaan = 'kenyang'
    def olah(self,k):
        print('saya baru saja latihan', k)
        self.keadaan='lapar'
    def kali(self,n):
        return n*2
class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dai class Manusia"""
    matkul=[]
    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
```

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 (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MO
DUL - 02/4.py
>>> m234 = Mahasiswa('Novera',126,'Batang',250000)
>>> m234.listKuliah()
[]
>>> m234.ambilMK('Matematika Diskrit')
>>> m234.listKuliah()
['Matematika Diskrit']
>>> m234.ambilMK('Algoritma dan Struktur Data')
>>> m234.lisrKuliah()
Traceback (most recent call last):
  File "<pyshell#5>", line 1, in <module>
    m234.lisrKuliah()
AttributeError: 'Mahasiswa' object has no attribute 'lisrKuliah'
>>> m234.listKuliah()
['Matematika Diskrit', 'Algoritma dan Struktur Data']
>>>
```

4.py - E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MODUL - 0...

File Edit Format Run Options Window Help

```
        print('saya baru saja latihan', k)
        self.keadaan='lapar'
    def kali(self,n):
        return n*2
class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dai class Manusia"""
    matkul=[]
    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
    def ambilMK(self,mk):
        self.matkul.append(mk)
    def listKuliah(self):
        print(self.matkul)
```

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 (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MO
DUL - 02/4.py
>>> m234 = Mahasiswa('Novera',126,'Batang',250000)
>>> m234.listKuliah()
[]
>>> m234.ambilMK('Matematika Diskrit')
>>> m234.listKuliah()
['Matematika Diskrit']
>>> m234.ambilMK('Algoritma dan Struktur Data')
>>> m234.lisrKuliah()
Traceback (most recent call last):
  File "<pyshell#5>", line 1, in <module>
    m234.lisrKuliah()
AttributeError: 'Mahasiswa' object has no attribute 'lisrKuliah'
>>> m234.listKuliah()
['Matematika Diskrit', 'Algoritma dan Struktur Data']
>>>
```

5. Coding Program

5.py - E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MODUL - 0...

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)
    def makan(self,s):
        print("Saya baru saja makan", s)
        self.keadaan="kenyang"
    def olahraga(self,k):
        print("Saya baru saja latihan", k)
        self.keadaan="lapar"
    def mengalikanDenganDua(self,n):
        return n*2

class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dai class Manusia"""
    matkul=[]
    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
```

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 (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MO
DUL - 02/5.py
>>> mhs = Mahasiswa('Novera',126,'Batang',250000)
>>> mhs.ambilMK('Matematika Diskrit')
>>> mhs.listKuliah()
['Matematika Diskrit']
>>> mhs.ambilMK('Algoritma dan Struktur Data')
>>> mhs.listKuliah()
['Matematika Diskrit', 'Algoritma dan Struktur Data']
>>> mhs.hapusKuliah('Matematika Diskrit')
>>> mhs.listKuliah()
['Algoritma dan Struktur Data']
>>>
```

5.py - E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MODUL - 0...

File Edit Format Run Options Window Help

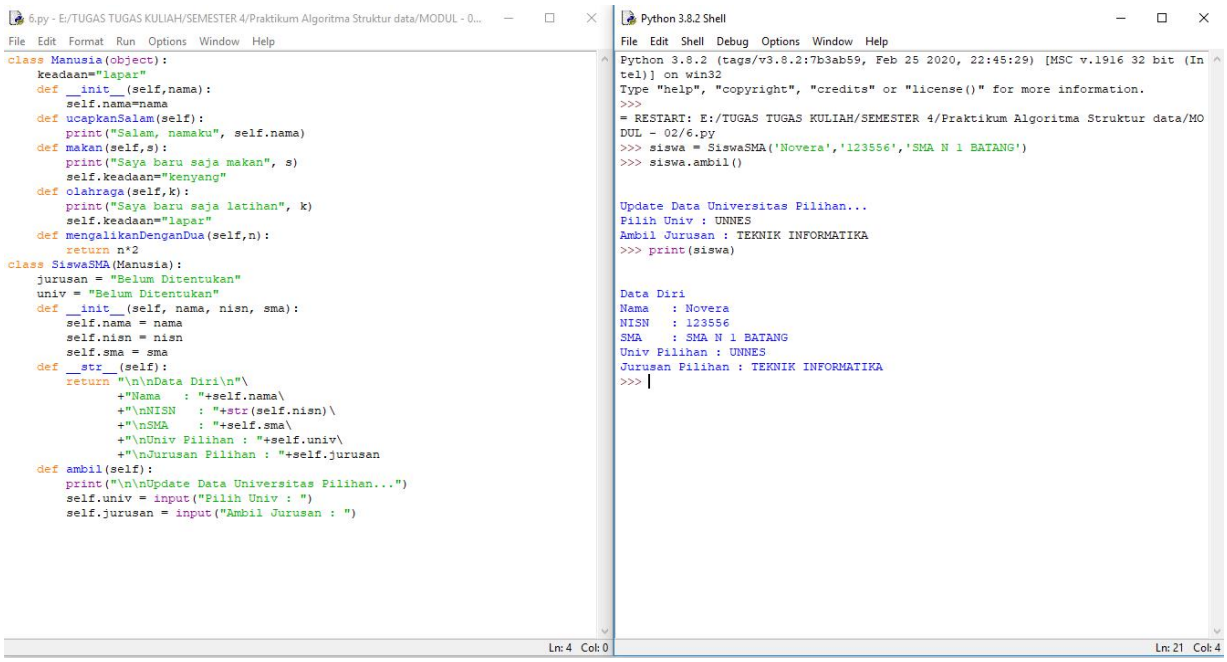
```
    def mengalikanDenganDua(self,n):
        return n*2

class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dai class Manusia"""
    matkul=[]
    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
    def ambilMK(self, mk):
        return self.matkul.append(mk)
    def listKuliah(self):
        print(self.matkul)
    def hapusKuliah(self, mk):
        return self.matkul.remove(mk)
```

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 (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MO
DUL - 02/5.py
>>> mhs = Mahasiswa('Novera',126,'Batang',250000)
>>> mhs.ambilMK('Matematika Diskrit')
>>> mhs.listKuliah()
['Matematika Diskrit']
>>> mhs.ambilMK('Algoritma dan Struktur Data')
>>> mhs.listKuliah()
['Matematika Diskrit', 'Algoritma dan Struktur Data']
>>> mhs.hapusKuliah('Matematika Diskrit')
>>> mhs.listKuliah()
['Algoritma dan Struktur Data']
>>>

6. Coding Program



6.py - E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MODUL - 0...

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)
    def makan(self,s):
        print("Saya baru saja makan", s)
        self.keadaan="kenyang"
    def olahraga(self,k):
        print("Saya baru saja latihan", k)
        self.keadaan="lapar"
    def mengalikanDenganDua(self,n):
        return n*2
class SiswaSMA(Manusia):
    jurusan = "Belum Ditentukan"
    univ = "Belum Ditentukan"
    def __init__(self, nama, nisn, sma):
        self.nama = nama
        self.nisn = nisn
        self.sma = sma
    def __str__(self):
        return "\n\nData Diri\n"\
               +"Nama    : "+self.nama\
               +"\nNISN    : "+str(self.nisn)\
               +"\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 : ")
```

Ln: 4 Col: 0

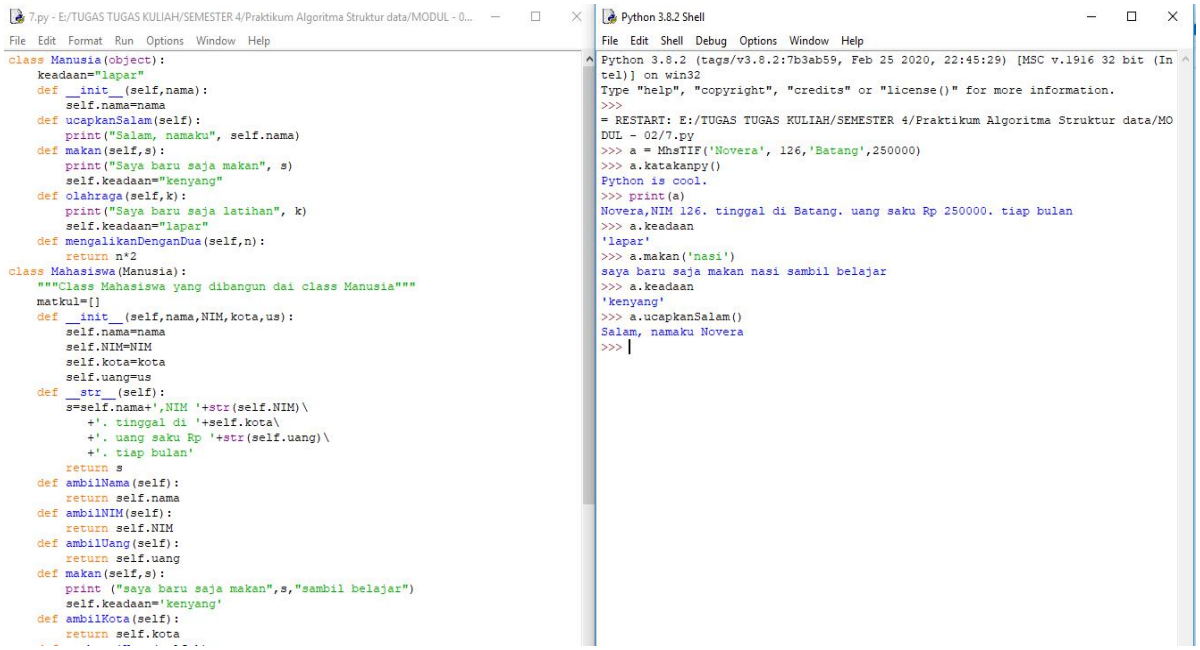
Python 3.8.2 Shell

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 (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MO
DUL - 02/6.py
>>> siswa = SiswaSMA('Novera','123556','SMA N 1 BATANG')
>>> siswa.ambil()


Update Data Universitas Pilihan...
Pilih Univ : UNNES
Ambil Jurusan : TEKNIK INFORMATIKA
>>> print(siswa)


Data Diri
Nama    : Novera
NISN    : 123556
SMA     : SMA N 1 BATANG
Univ Pilihan : UNNES
Jurusan Pilihan : TEKNIK INFORMATIKA
>>>
```

Ln: 21 Col: 4

7. Coding Program



7.py - E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MODUL - 0...

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)
    def makan(self,s):
        print("Saya baru saja makan", s)
        self.keadaan="kenyang"
    def olahraga(self,k):
        print("Saya baru saja latihan", k)
        self.keadaan="lapar"
    def mengalikanDenganDua(self,n):
        return n*2
class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dai class Manusia"""
    matkul=[]
    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
```

Python 3.8.2 Shell

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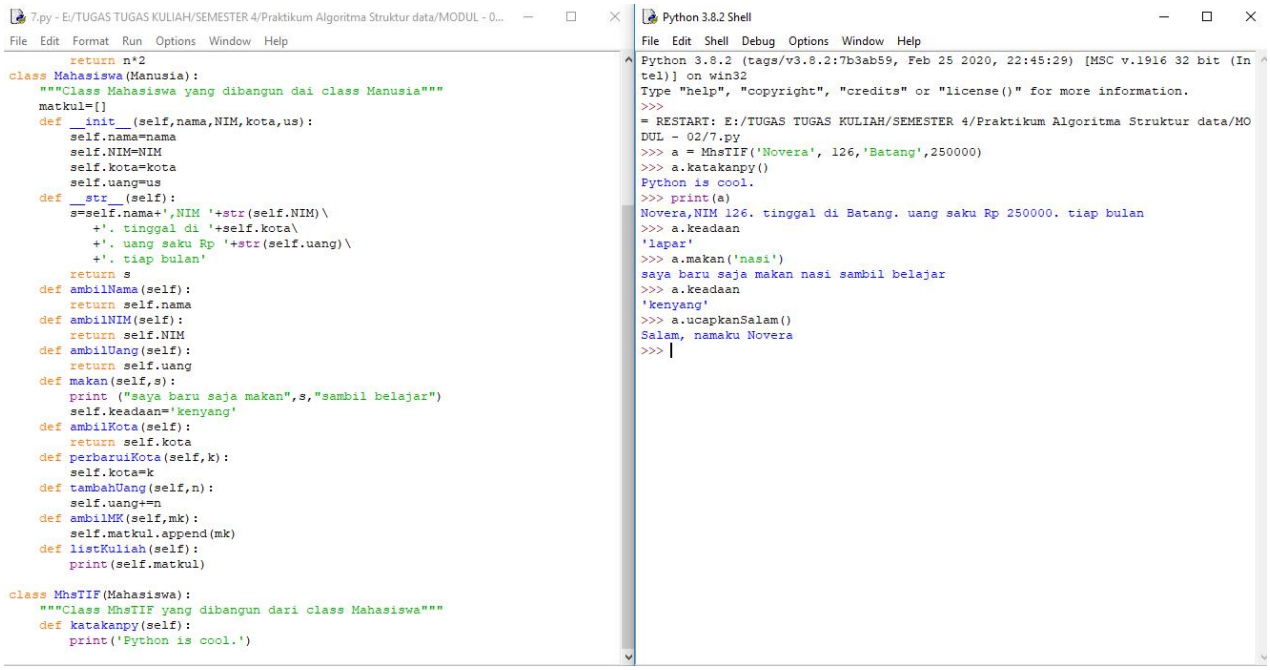
```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MO
DUL - 02/7.py
>>> a = MhsTIF('Novera', 126,'Batang',250000)
>>> a.katakanpy()
Python is cool.
>>> print(a)
Novera,NIM 126. tinggal di Batang. uang saku Rp 250000. tiap bulan
>>> a.keadaan
'lapar'
>>> a.makan('nasi')
saya baru saja makan nasi sambil belajar
>>> a.keadaan
'kenyang'
>>> a.ucapkanSalam()
Salam, namaku Novera
>>>
```


7.py - E:/TUGAS TUGAS KULIAH/SEMESTER 4/Praktikum Algoritma Struktur data/MODUL - 0...
File Edit Format Run Options Window Help
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+'. 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 ambilMK(self,mk):
self.matkul.append(mk)
def listKuliah(self):
print(self.matkul)
class MhsTIF(Mahasiswa):
"""Class MhsTIF yang dibangun dari class 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, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
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Salam, namaku Novera
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