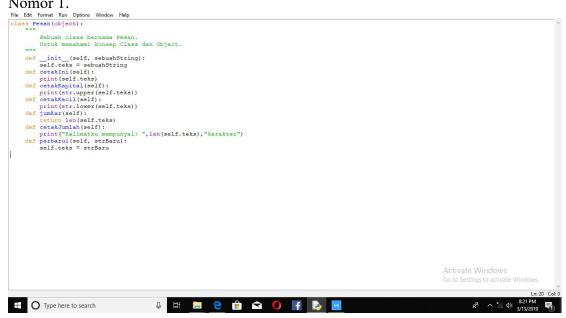Nama   : Lail Nur Rachman
NIM   : L200170137
Kelas D

MODUL 2

Nomor 1.

```
File  Edit  Format  Run  Options  Window  Help
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
```

```
File  Edit  Format  Run  Options  Window  Help
        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 apaTerkandung(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
        return n

kataku = Pesan("Karanganyar")
kataku.apaTerkandung("angan")
kataku.apaTerkandung("kamu")
print(kataku.hitungVokal())
print(kataku.hitungKonsonan())
```

```
File  Edit  Shell  Debug  Options  Window  Help
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>>
=========== RESTART: C:\Users\asusX441u\Documents\2_D_153\nomor1.py ===========
true
false
4
7
>>>
```

Nomor 2.

```python
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
```
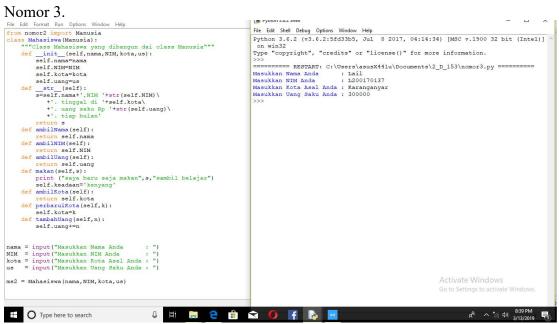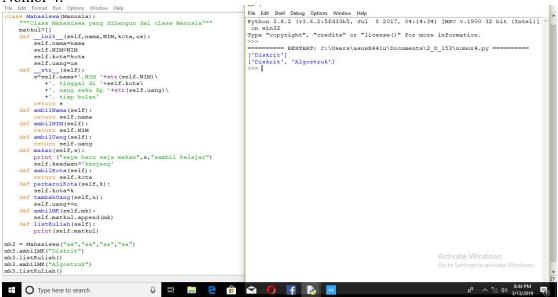
Ln: 15   Col: 18

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                                                                  3/13/2019

```python
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


ms1=Mahasiswa('Lail',137,'Karanganyar',200000)
print(ms1.ambilKota())
ms1.perbaruiKota('Solo')
print(ms1.ambilKota())
print(ms1.ambilUang())
ms1.tambahUang(50000)
print(ms1.ambilUang())
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\asusX441u\Documents\2_D_153\nomor2n.py ==========
Karanganyar
Solo
200000
250000
>>>
```

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                                                                  3/13/2019

Nomor 3.

```python
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, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>>
=========== RESTART: C:\Users\asusX441u\Documents\2_D_153\nomor3.py ==========
Masukkan Nama Anda      : Lail
Masukkan NIM Anda       : L200170137
Masukkan Kota Asal Anda : Karanganyar
Masukkan Uang Saku Anda : 300000
>>>
```

Nomor 4.

```python
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)

mh3 = Mahasiswa("aa","aa","aa","aa")
mh3.ambilMK("Diskrit")
mh3.listKuliah()
mh3.ambilMK("Algostruk")
mh3.listKuliah()
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>>
=========== RESTART: C:\Users\asusX441u\Documents\2_D_153\nomor4.py ==========
['Diskrit']
['Diskrit', 'Algostruk']
>>>
```

Nomor 5.

```python
from nomor2 import Manusia
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)

mh3 = Mahasiswa("aa","aa","aa","aa")
mh3.ambilMK("Diskrit")
```

Ln: 43 Col: 24

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```python
        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)

mh3 = Mahasiswa("aa","aa","aa","aa")
mh3.ambilMK("Diskrit")
mh3.listKuliah()
mh3.ambilMK("Algostruk")
mh3.listKuliah()
mh3.hapusKuliah("Diskrit")
mh3.listKuliah()
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\asusX441u\Documents\2_D_153\nomor5.py ==========
['Diskrit']
['Diskrit', 'Algostruk']
['Algostruk']
>>>
```

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Nomor 6.

```python
from nomor2 import Manusia

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 : ")

sis = SiswaSMA("Ani","3021737828","SMA N 1 Karanganyar")
print(sis)
sis.ambil()
print(sis)
```

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\asusX441u\Documents\2_D_153\nomor6.py ==========


Data Diri
Nama    : Ani
NISN    : 3021737828
SMA     : SMA N 1 Karanganyar
Univ Pilihan : Belum Ditentukan
Jurusan Pilihan : Belum Ditentukan


Update Data Universitas Pilihan...
Pilih Univ : UGM
Ambil Jurusan : Teknik Sipil


Data Diri
Nama    : Ani
NISN    : 3021737828
SMA     : SMA N 1 Karanganyar
Univ Pilihan : UGM
Jurusan Pilihan : Teknik Sipil
>>>
```