

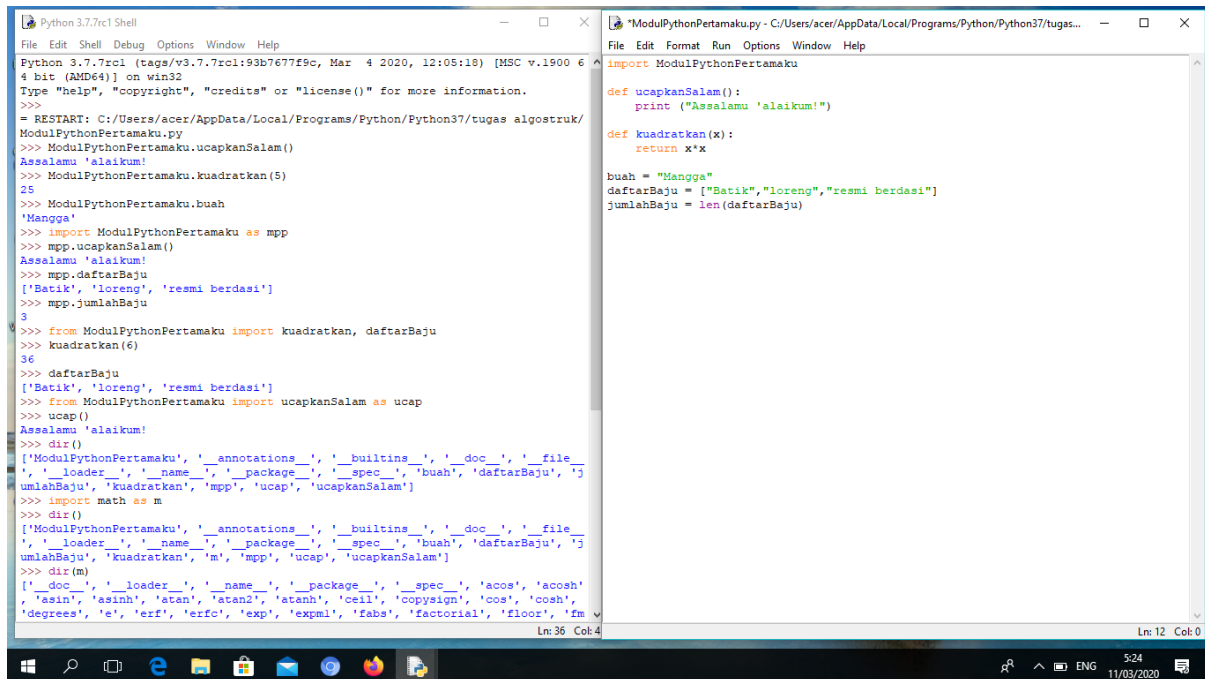
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Kelas : E

Latihan :

Latihan2.1



The screenshot shows two windows. The left window is a Python 3.7.7rc1 Shell with the following code and output:

```
Python 3.7.7rc1 (tags/v3.7.7:193b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/ModulPythonPertamaku.py
>>> ModulPythonPertamaku.ucapkanSalam()
Assalamu 'alaikum!'
>>> ModulPythonPertamaku.kuadratkan(5)
25
>>> ModulPythonPertamaku.buah
'Mangga'
>>> import ModulPythonPertamaku as mpp
>>> mpp.ucapkanSalam()
Assalamu 'alaikum!'
>>> mpp.daftarBaju
['Batik', 'loreng', 'resmi berdasi']
>>> mpp.jumlahBaju
3
>>> from ModulPythonPertamaku import kuadratkan, daftarBaju
>>> kuadratkan(6)
36
>>> daftarBaju
['Batik', 'loreng', 'resmi berdasi']
>>> from ModulPythonPertamaku import ucapkanSalam as ucap
>>> ucap()
Assalamu 'alaikum!'
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__', 'buah', 'daftarBaju', 'jumlahBaju', 'kuadratkan', 'mpp', 'ucap', 'ucapkanSalam']
>>> import math as m
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__', 'buah', 'daftarBaju', 'jumlahBaju', 'kuadratkan', 'm', 'mpp', 'ucap', 'ucapkanSalam']
>>> dir(m)
['__doc__', '__loader__', '__name__', '__package__', '__spec__', 'acos', 'acosh', 'asin', 'asinh', 'atan', 'atan2', 'atanh', 'ceil', 'copysign', 'cos', 'cosh', 'degrees', 'e', 'erf', 'erfc', 'exp', 'expm1', 'fabs', 'factorial', 'floor', 'fmod', 'frexp', 'fsum', 'gamma', 'gcd', 'hypot', 'inf', 'isclose', 'isfinite', 'isinf', 'isnan', 'ldexp', 'lgamma', 'log', 'log10', 'logip', 'log2', 'modf', 'nan', 'pi', 'pow', 'radians', 'remainder', 'sin', 'sinh', 'sqrt', 'tan', 'tanh', 'tau', 'trunc']
>>> from sys import *
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__', 'api version', 'argv', 'base_exec_prefix', 'base_prefix', 'breakpointhook', 'buah', 'builtin_module_name', 's', 'byteorder', 'call_tracing', 'callstats', 'copyright', 'daftarBaju', 'displays', 'dillhandle', 'dont_write_bytecode', 'exec_info', 'excepthook', 'exec_prefix', 'executable', 'exit', 'flags', 'float_info', 'float_repr_style', 'get_asyncgen_hooks', 'get_coroutine_origin_tracking_depth', 'get_coroutine_wrapper', 'get_all_coroutine_hooks', 'getcheckinterval', 'getdefaultencoding', 'getfilesystemencoding', 'errors', 'getfilesystemencoding', 'getprofile', 'getrecursionlimit', 'getrecofount', 'getsizeof', 'getswitchinterval', 'gettrace', 'getwindowsversion', 'hash_info', 'hexversion', 'implementation', 'int_info', 'intern', 'is_finalizing', 'jumlahBaju', 'kuadratkan', 'm', 'maxsize', 'maxunicode', 'meta_path', 'modules', 'mp', 'path', 'path_hooks', 'path_importer_cache', 'platform', 'prefix', 'set_asyncgen_hooks', 'set_coroutine_origin_tracking_depth', 'set_coroutine_wrapper', 'setcheckinterval', 'setprofile', 'setrecursionlimit', 'setswitchinterval', 'settrace', 'stderr', 'stdin', 'stdout', 'thread_info', 'ucap', 'ucapkanSalam', 'version_info', 'warnoptions', 'winver']
>>>
```

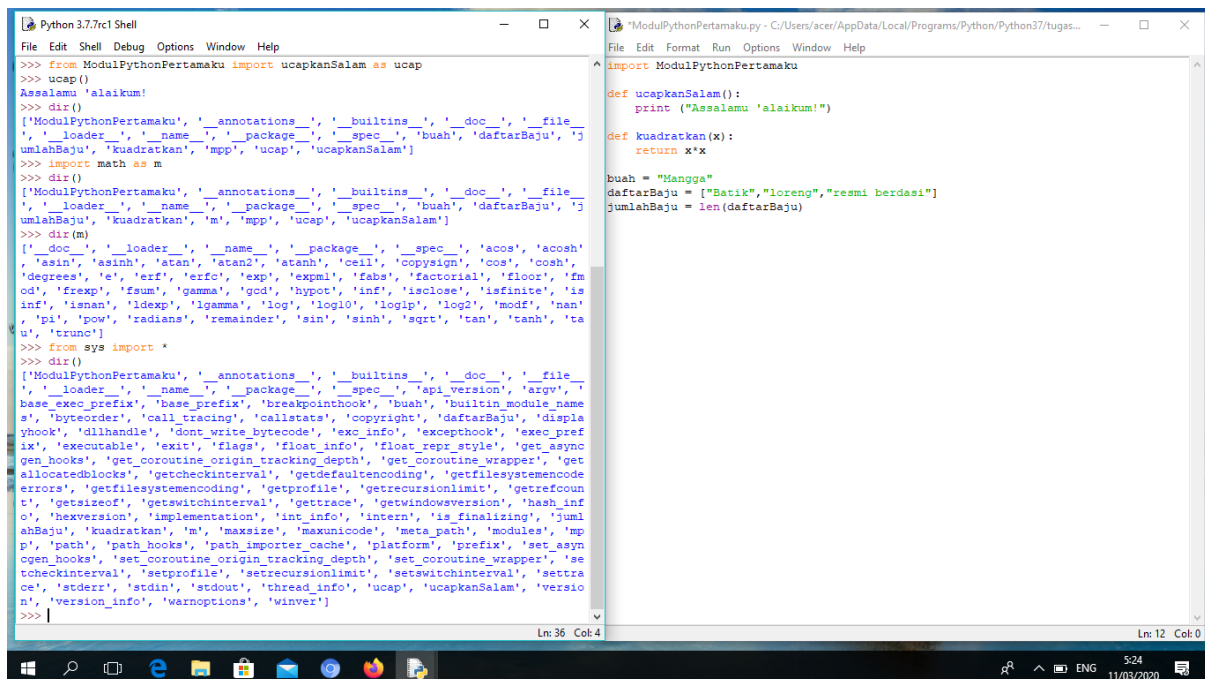
The right window is a Python script editor showing the code for ModulPythonPertamaku.py:

```
import ModulPythonPertamaku

def ucapkanSalam():
    print ("Assalamu 'alaikum'")

def kuadratkan(x):
    return x*x

buah = "Mangga"
daftarBaju = ["Batik","loreng","resmi berdasi"]
jumlahBaju = len(daftarBaju)
```



The screenshot shows two windows. The left window is a Python 3.7.7rc1 Shell with the following code and output:

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
>>> from ModulPythonPertamaku import ucapkanSalam as ucap
>>> ucap()
Assalamu 'alaikum!'
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__', 'buah', 'daftarBaju', 'jumlahBaju', 'kuadratkan', 'mpp', 'ucap', 'ucapkanSalam']
>>> import math as m
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__', 'acos', 'acosh', 'asin', 'asinh', 'atan', 'atan2', 'atanh', 'ceil', 'copysign', 'cos', 'cosh', 'degrees', 'e', 'erf', 'erfc', 'exp', 'expm1', 'fabs', 'factorial', 'floor', 'fmod', 'frexp', 'fsum', 'gamma', 'gcd', 'hypot', 'inf', 'isclose', 'isfinite', 'isinf', 'isnan', 'ldexp', 'lgamma', 'log', 'log10', 'logip', 'log2', 'modf', 'nan', 'pi', 'pow', 'radians', 'remainder', 'sin', 'sinh', 'sqrt', 'tan', 'tanh', 'tau', 'trunc']
>>> from sys import *
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__', 'api version', 'argv', 'base_exec_prefix', 'base_prefix', 'breakpointhook', 'buah', 'builtin_module_name', 's', 'byteorder', 'call_tracing', 'callstats', 'copyright', 'daftarBaju', 'displays', 'dillhandle', 'dont_write_bytecode', 'exec_info', 'excepthook', 'exec_prefix', 'executable', 'exit', 'flags', 'float_info', 'float_repr_style', 'get_asyncgen_hooks', 'get_coroutine_origin_tracking_depth', 'get_coroutine_wrapper', 'get_all_coroutine_hooks', 'getcheckinterval', 'getdefaultencoding', 'getfilesystemencoding', 'errors', 'getfilesystemencoding', 'getprofile', 'getrecursionlimit', 'getrecofount', 'getsizeof', 'getswitchinterval', 'gettrace', 'getwindowsversion', 'hash_info', 'hexversion', 'implementation', 'int_info', 'intern', 'is_finalizing', 'jumlahBaju', 'kuadratkan', 'm', 'maxsize', 'maxunicode', 'meta_path', 'modules', 'mp', 'path', 'path_hooks', 'path_importer_cache', 'platform', 'prefix', 'set_asyncgen_hooks', 'set_coroutine_origin_tracking_depth', 'set_coroutine_wrapper', 'setcheckinterval', 'setprofile', 'setrecursionlimit', 'setswitchinterval', 'settrace', 'stderr', 'stdin', 'stdout', 'thread_info', 'ucap', 'ucapkanSalam', 'version_info', 'warnoptions', 'winver']
>>>
```

The right window is a Python script editor showing the code for ModulPythonPertamaku.py:

```
import ModulPythonPertamaku

def ucapkanSalam():
    print ("Assalamu 'alaikum'")

def kuadratkan(x):
    return x*x

buah = "Mangga"
daftarBaju = ["Batik","loreng","resmi berdasi"]
jumlahBaju = len(daftarBaju)
```

Latihan2.2

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
>>> from modulPythonPertamaku import ucapkanSalam as ucap
>>> ucap()
Assalamu 'alaikum!
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__ju', 'kuadratkan', 'mmp', 'ucap', 'ucapkanSalam']
>>> import math as m
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', 'ju', 'kuadratkan', 'm', 'mmp', 'ucap', 'ucapkanSalam']
>>> dir(m)
['__doc__', '__loader__', '__name__', '__package__', '__spec__', 'acos', 'acosh', 'asin', 'asinh', 'atan2', 'atanh', 'ceil', 'copysign', 'cos', 'cosh', 'erf', 'erfc', 'exp', 'expm1', 'fabs', 'factorial', 'floor', 'fmod', 'frexp', 'gamma', 'lgamma', 'log', 'log10', 'log1p', 'log2', 'modf', 'nan', 'pi', 'pow', 'radians', 'sin', 'sinh', 'sqrt', 'tan', 'tanh', 'trunc']
>>> from sys import *
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', 'ec_prefix', 'base_prefix', 'breakpointhook', 'Buah', 'builtin_module_names', 'bytecode', 'nfile', 'dont_write_bytecode', 'exec_info', 'excepthook', 'exec_prefix', 'executable', 'outine_origin_tracking_depth', 'get_coroutine_wrapper', 'getallocatedblocks', 'getcheck', 'ing', 'getprofile', 'getrecursionlimit', 'getrefcount', 'getsizeof', 'getswitchinterv', 'int_info', 'intern', 'is_finalizing', 'jumlahBaju', 'kuadratkan', 'm', 'maxsize', 'me', 'che', 'platform', 'prefix', 'set_asyncgen_hooks', 'set_coroutine_origin_tracking_dept', 'setswitchinterval', 'settrace', 'stderr', 'stdin', 'stdout', 'thread_info', 'ucap', 'ucap', 'ucap']
>>>
= RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoo
>>> pesanA = Pesan("Aku suka kuliah ini")
>>> pesanB = Pesan("Surakarta : the spirit of Java")
>>> pesanA.cetakIni()
Aku suka kuliah ini
>>> pesanA.cetakJumlahKarakterku()
Kalimatku mempunyai 19 karakter
>>> pesanB.cetakJumlahKarakterku()
Kalimatku mempunyai 30 karakter
>>> pesanA.cetakPakaiHurufKapital()
AKU SUKA KULIAH INI
>>> pesanA.cetakPakaiHurufKecil()
aku suka kuliah ini
>>> pesanA.perbarui("Aku senang struktur data")
>>> pesanA.cetakIni()
Aku senang struktur data
>>>

latoo2.py - C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoo...
File Edit Format Run Options Window Help
class Pesan(object):
    """Sebuah class bernama Pesan.
    Untuk memahami Konsep class dan Objek"""
    def __init__(self, sebuahString):
        self.teks = sebuahString
    def cetakIni(self):
        print(self.teks)
    def cetakPakaiHurufKapital(self):
        print(str.upper(self.teks))
    def cetakPakaiHurufKecil(self):
        print(str.lower(self.teks))
    def jumKar(self):
        return len(self.teks)
    def cetakJumlahKarakterku(self):
        print("Kalimatku mempunyai",len(self.teks),"karakter")
    def perbarui(self,stringBaru):
        self.teks = stringBaru

Ln: 18 Col: 0
Ln: 33 Col: 4

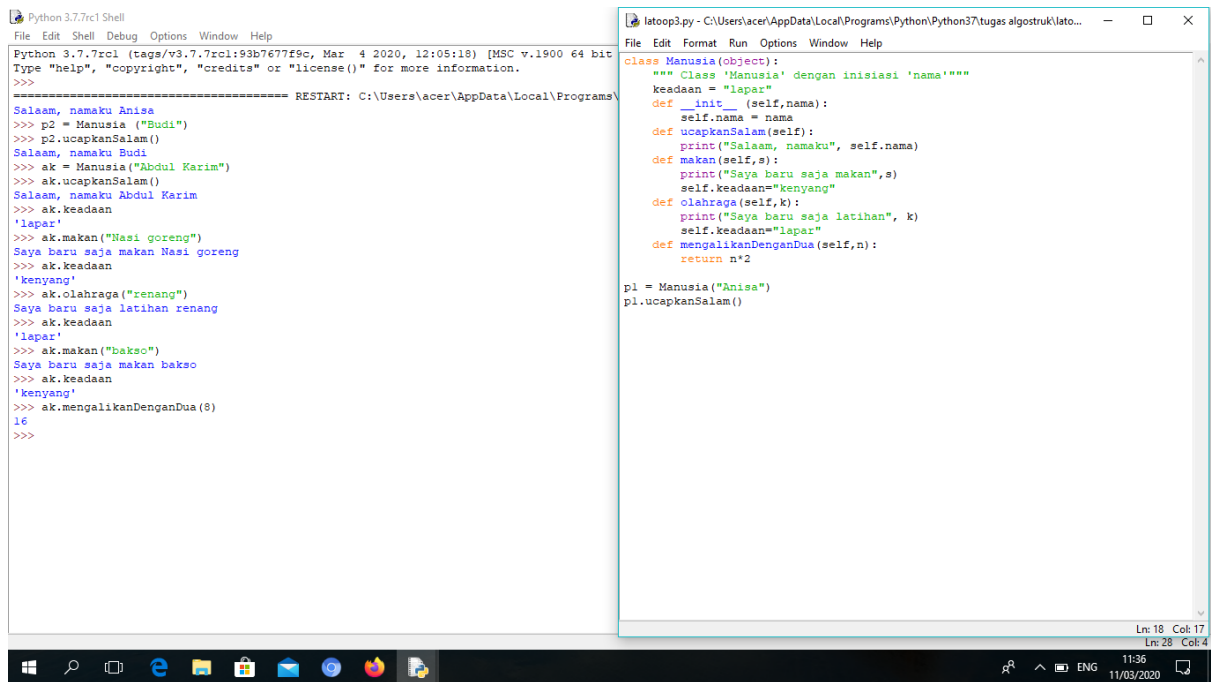
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
>>> from modulPythonPertamaku import ucapkanSalam as ucap
>>> ucap()
Assalamu 'alaikum!
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__ju', 'kuadratkan', 'mmp', 'ucap', 'ucapkanSalam']
>>> import math as m
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', 'ju', 'kuadratkan', 'm', 'mmp', 'ucap', 'ucapkanSalam']
>>> dir(m)
['__doc__', '__loader__', '__name__', '__package__', '__spec__', 'acos', 'acosh', 'asin', 'asinh', 'atan2', 'atanh', 'ceil', 'copysign', 'cos', 'cosh', 'erf', 'erfc', 'exp', 'expm1', 'fabs', 'factorial', 'floor', 'fmod', 'frexp', 'gamma', 'lgamma', 'log', 'log10', 'log1p', 'log2', 'modf', 'nan', 'pi', 'pow', 'radians', 'sin', 'sinh', 'sqrt', 'tan', 'tanh', 'trunc']
>>> from sys import *
>>> dir()
['ModulPythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', 'ec_prefix', 'base_prefix', 'breakpointhook', 'Buah', 'builtin_module_names', 'bytecode', 'nfile', 'dont_write_bytecode', 'exec_info', 'excepthook', 'exec_prefix', 'executable', 'outine_origin_tracking_depth', 'get_coroutine_wrapper', 'getallocatedblocks', 'getcheck', 'ing', 'getprofile', 'getrecursionlimit', 'getrefcount', 'getsizeof', 'getswitchinterv', 'int_info', 'intern', 'is_finalizing', 'jumlahBaju', 'kuadratkan', 'm', 'maxsize', 'me', 'che', 'platform', 'prefix', 'set_asyncgen_hooks', 'set_coroutine_origin_tracking_dept', 'setswitchinterval', 'settrace', 'stderr', 'stdin', 'stdout', 'thread_info', 'ucap', 'ucap', 'ucap']
>>>
= RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoo
>>> pesanA = Pesan("Aku suka kuliah ini")
>>> pesanB = Pesan("Surakarta : the spirit of Java")
>>> pesanA.cetakIni()
Aku suka kuliah ini
>>> pesanA.cetakJumlahKarakterku()
Kalimatku mempunyai 19 karakter
>>> pesanB.cetakJumlahKarakterku()
Kalimatku mempunyai 30 karakter
>>> pesanA.cetakPakaiHurufKapital()
AKU SUKA KULIAH INI
>>> pesanA.cetakPakaiHurufKecil()
aku suka kuliah ini
>>> pesanA.perbarui("Aku senang struktur data")
>>> pesanA.cetakIni()
Aku senang struktur data
>>>

= RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoo
>>> obQ = sembarangKelas()
Traceback (most recent call last):
  File "<pyshell#27>", line 1, in <module>
    obQ = sembarangKelas()
NameError: name 'sembarangKelas' is not defined
>>>
= RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoo
>>> obQ = sembarangKelas()
>>> obQ.metodeSatu()
>>> obQ.metodeSatu("Aku suka makan mie ayam")
Traceback (most recent call last):
  File "<pyshell#30>", line 1, in <module>
    obQ.metodeSatu("Aku suka makan mie ayam")
TypeError: metodeSatu() takes 1 positional argument but 2 were given
>>> obQ.metodeSemblilan("Aku suka makan mie ayam")
>>>

'obQ.py - C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/obQ.py...
File Edit Format Run Options Window Help
class sembarangKelas(object):
    def metodeSatu(self):
        pass
    def metodeSemblilan(self, stringBaru):
        pass

Ln: 5 Col: 15
Ln: 70 Col: 4
```

Latihan2.3

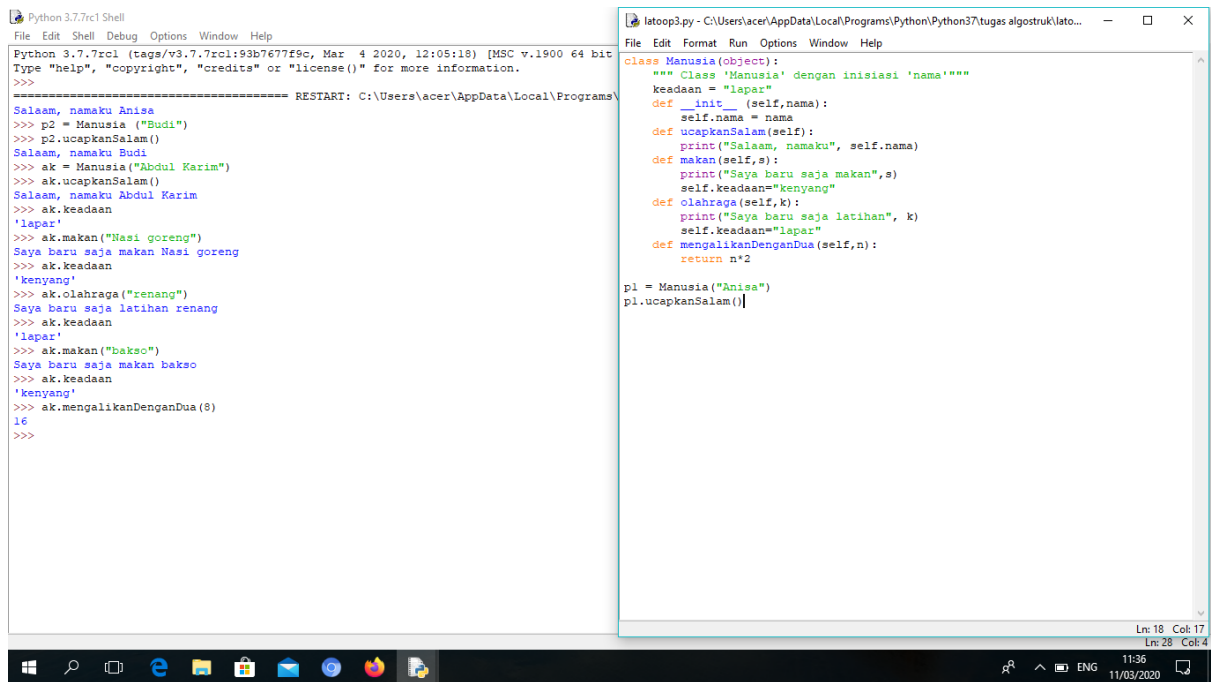


The image shows a Python 3.7.7rc1 Shell window on the left and a Python script editor on the right. The shell window displays the execution of a script, showing the output of various method calls on a 'Manusia' object. The script editor shows the source code of the script, which defines a 'Manusia' class with attributes 'nama' and 'keadaan', and methods for interacting with the object.

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 bit
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\python.exe
Salaam, namaku Anisa
>>> p2 = Manusia ("Budi")
>>> p2.ucapkenSalam()
Salaam, namaku Budi
>>> ak = Manusia("Abdul Karim")
>>> ak.ucapkenSalam()
Salaam, namaku Abdul Karim
>>> ak.keadaan
'lapar'
>>> ak.makan("Nasi goreng")
Saya baru saja makan Nasi goreng
>>> ak.keadaan
'kenyang'
>>> ak.olahraga("renang")
Saya baru saja latihan renang
>>> ak.keadaan
'lapar'
>>> ak.makan("bakso")
Saya baru saja makan bakso
>>> ak.keadaan
'kenyang'
>>> ak.mengalikanDenganDua(8)
16
>>>
```

```
latoop3.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\lato...
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 ucapkenSalam(self):
        print("Salaam, 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

p1 = Manusia("Anisa")
p1.ucapkenSalam()
```



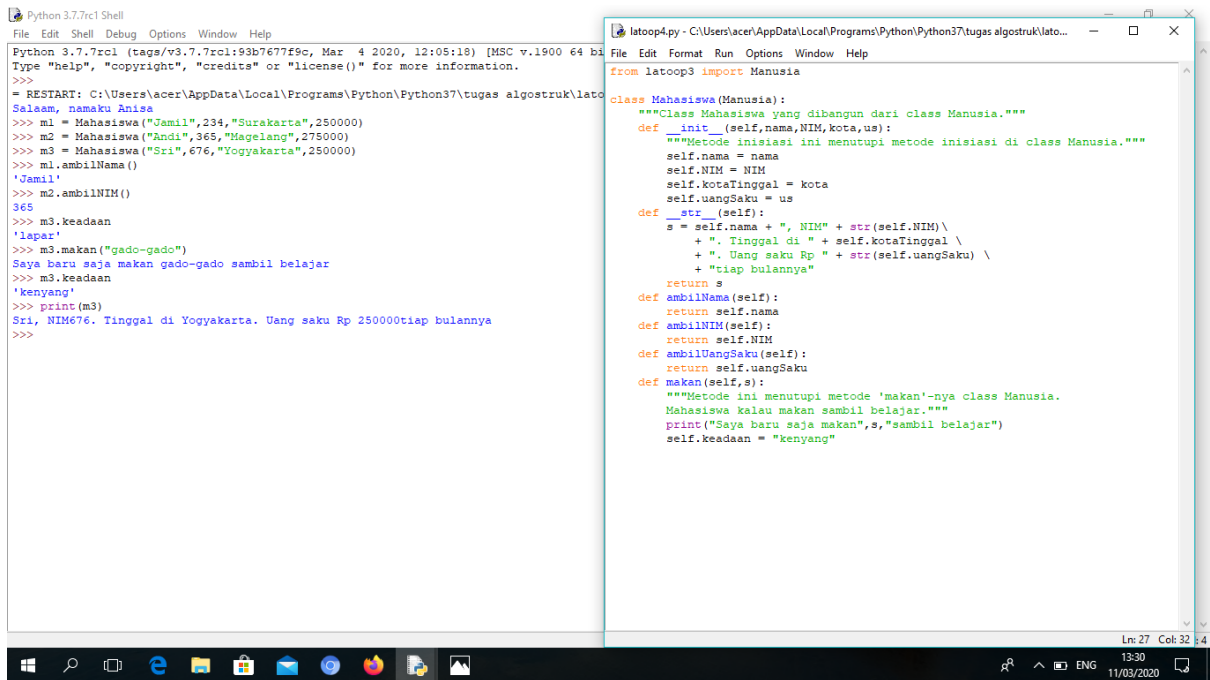
This image is a duplicate of the one above, showing the same Python 3.7.7rc1 Shell and Python script editor windows. The shell window displays the execution of the script, and the script editor shows the source code of the 'Manusia' class and its usage.

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 bit
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\python.exe
Salaam, namaku Anisa
>>> p2 = Manusia ("Budi")
>>> p2.ucapkenSalam()
Salaam, namaku Budi
>>> ak = Manusia("Abdul Karim")
>>> ak.ucapkenSalam()
Salaam, namaku Abdul Karim
>>> ak.keadaan
'lapar'
>>> ak.makan("Nasi goreng")
Saya baru saja makan Nasi goreng
>>> ak.keadaan
'kenyang'
>>> ak.olahraga("renang")
Saya baru saja latihan renang
>>> ak.keadaan
'lapar'
>>> ak.makan("bakso")
Saya baru saja makan bakso
>>> ak.keadaan
'kenyang'
>>> ak.mengalikanDenganDua(8)
16
>>>
```

```
latoop3.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\lato...
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 ucapkenSalam(self):
        print("Salaam, 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

p1 = Manusia("Anisa")
p1.ucapkenSalam()
```

Latihan2.4



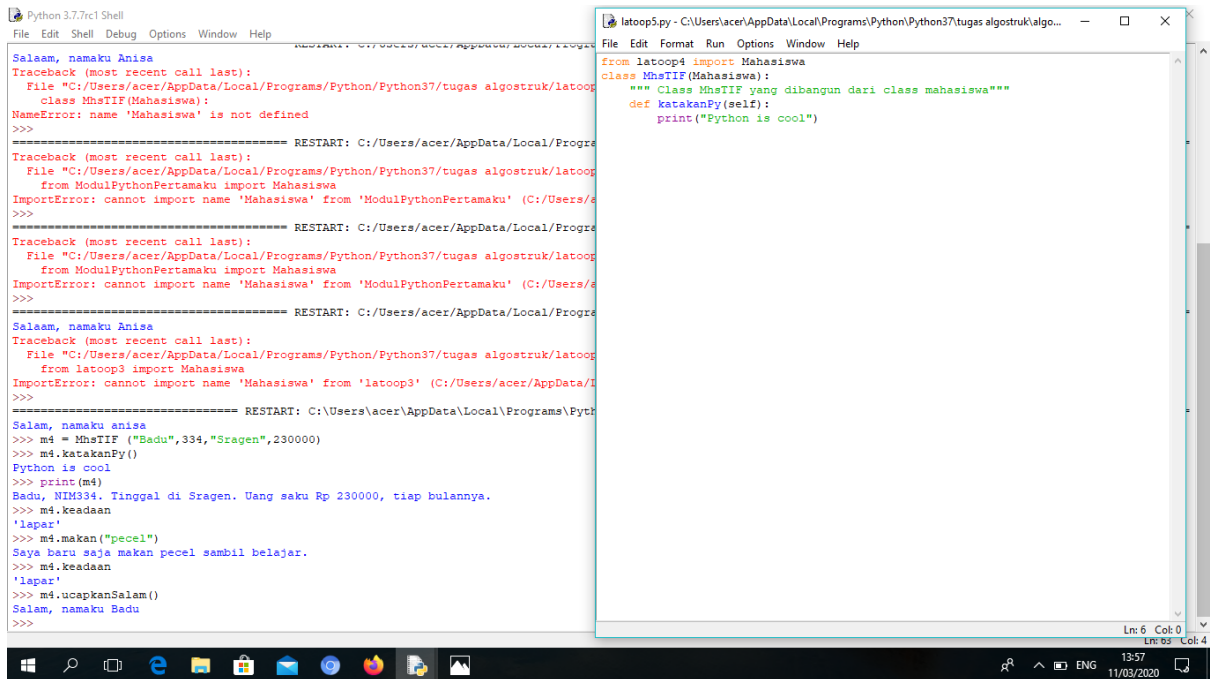
The screenshot shows two windows from a Python IDE. The left window, titled 'Python 3.7.7rc1 Shell', contains a Python script that creates three Mahasiswa objects (m1, m2, m3) and prints their details. The right window, titled 'latoop4.py', contains the class definition for Mahasiswa, which inherits from Manusia. The class has attributes for name, NIM, kota, and uangSaku, and methods for initialization, string representation, and getting/setting attributes.

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 bit
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\lato
Salaam, namaku Anisa
>>> m1 = Mahasiswa("Jamil",234,"Surakarta",250000)
>>> m2 = Mahasiswa("Andi",365,"Magelang",275000)
>>> m3 = Mahasiswa("Sri",676,"Yogyakarta",250000)
>>> m1.ambilNama()
'Jamil'
>>> m2.ambilNIM()
365
>>> m3.keadaan
'lepar'
>>> m3.makan("gado-gado")
Saya baru saja makan gado-gado sambil belajar
>>> m3.keadaan
'kenyang'
>>> print(m3)
Sri, NIM676. Tinggal di Yogyakarta. Uang saku Rp 250000tiap bulannya
>>>
```

```
latoop4.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\lato...
File Edit Format Run Options Window Help
from latoop3 import Manusia

class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dari class Manusia."""
    def __init__(self,nama,NIM,kota,us):
        """Metode inisiasi ini menutupi metode inisiasi di class Manusia."""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ", NIM" + str(self.NIM)\
            + ". Tinggal di " + self.kotaTinggal \
            + ". Uang saku Rp " + str(self.uangSaku) \
            + "tiap bulannya"
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self,s):
        """Metode ini menutupi metode 'makan'-nya class Manusia.
        Mahasiswa Kalau makan sambil belajar."""
        print("Saya baru saja makan",s,"sambil belajar")
        self.keadaan = "kenyang"
```

Latihan2.5



The screenshot shows two windows from a Python IDE. The left window, titled 'Python 3.7.7rc1 Shell', shows a series of errors and successful code execution. The right window, titled 'latoop5.py', shows the class definition for Mahasiswa, which inherits from Manusia. The class has attributes for name, NIM, kota, and uangSaku, and methods for initialization, string representation, and getting/setting attributes.

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Salaam, namaku Anisa
Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoop
    class MhsTIF(Mahasiswa):
NameError: name 'Mahasiswa' is not defined
>>>
= RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoop
Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoop
    from ModulPythonPertamaku import Mahasiswa
ImportError: cannot import name 'Mahasiswa' from 'ModulPythonPertamaku' (C:/Users/acer
>>>
= RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoop
Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoop
    from ModulPythonPertamaku import Mahasiswa
ImportError: cannot import name 'Mahasiswa' from 'ModulPythonPertamaku' (C:/Users/acer
>>>
= RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoop
Salaam, namaku Anisa
Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoop
    from latoop3 import Mahasiswa
ImportError: cannot import name 'Mahasiswa' from 'latoop3' (C:/Users/acer/AppData/Local
>>>
= RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/latoop
Salam, namaku anisa
>>> m4 = MhsTIF ("Badu",334,"Sragen",230000)
>>> m4.katakanPy()
Python is Cool
>>> print(m4)
Badu, NIM334. Tinggal di Sragen. Uang saku Rp 230000, tiap bulannya.
>>> m4.keadaan
'lepar'
>>> m4.makan("pecel")
Saya baru saja makan pecel sambil belajar.
>>> m4.keadaan
'lepar'
>>> m4.ucapkanSalam()
Salam, namaku Badu
>>>
```

```
latoop5.py - C:/Users/acer/AppData/Local/Programs/Python/Python37/tugas algostruk/algo...
File Edit Format Run Options Window Help
from latoop3 import Mahasiswa

class MhsTIF(Mahasiswa):
    """ Class MhsTIF yang dibangun dari class mahasiswa"""
    def katakanPy(self):
        print("Python is cool")
```

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 b
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo
Salam, namaku anisa
>>> m1 = Mahasiswa ("Jamil",234,"Surakarta",250000)
>>> m2 = Mahasiswa ("Andi",365,"Magelang",275000)
>>> m3 = Mahasiswa ("Sri",676,"Yogyakarta",240000)
>>> m1.ambilNama()
'Jamil'
>>> m2.ambilNIM()
365
>>> m3.ucapkenSalam()
Salam, namaku Sri
>>> m3.keadaan
'lapar'
>>> m3.makan("gado-gado")
Saya baru saja makan gado-gado sambil belajar.
>>> m3.keadaan
'lapar'
>>> print(m3)
Sri, NIM676. Tinggal di Yogyakarta. Uang saku Rp 240000, tiap bulannya.
>>>

latoop4.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo...
File Edit Format Run Options Window Help
from latoop3 import Manusia
class Mahasiswa(Manusia):
    """ Class Mahasiswa yang dibangun dari class Manusia."""
    def __init__(self,nama,NIM,kota,us):
        """ Metode inisiasi ini menutupi metode inisiasi di class Manusia."""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ", NIM" +str(self.NIM)\
            + ". Tinggal di " + self.kotaTinggal \
            + ". Uang saku Rp " + str(self.uangSaku) \
            + ". tiap bulannya."
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self,s):
        """ Metode ini menutupi metode 'makan'-nya class Manusia.
        Mahasiswa kalau makan sambil belajar."""
        print("Saya baru saja makan",s,"sambil belajar.")

m1 = Mahasiswa("Jamil",234,"Surakarta",250000)
m2 = Mahasiswa("Andi",365,"Magelang",275000)
m3 = Mahasiswa("Sri",676,"Yogyakarta",240000)
```

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 b
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo
Salam, namaku anisa
>>> m1 = Mahasiswa ("Jamil",234,"Surakarta",250000)
>>> m2 = Mahasiswa ("Andi",365,"Magelang",275000)
>>> m3 = Mahasiswa ("Sri",676,"Yogyakarta",240000)
>>> m1.ambilNama()
'Jamil'
>>> m2.ambilNIM()
365
>>> m3.ucapkenSalam()
Salam, namaku Sri
>>> m3.keadaan
'lapar'
>>> m3.makan("gado-gado")
Saya baru saja makan gado-gado sambil belajar.
>>> m3.keadaan
'lapar'
>>> print(m3)
Sri, NIM676. Tinggal di Yogyakarta. Uang saku Rp 240000, tiap bulannya.
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo
Salam, namaku anisa
>>> m4 = MhsTIF("Badu",334,"Sragen",230000)
>>> m4.katakanPy
<bound method MhsTIF.katakanPy of <__main__.MhsTIF object at 0x0000016936DFD4C8>
>>> m4.katakanPy()
Python is cool
>>> print(m4)
Badu, NIM334. Tinggal di Sragen. Uang saku Rp 230000, tiap bulannya.
>>> m4.keadaan
'lapar'
>>> m4.makan("pecel")
Saya baru saja makan pecel sambil belajar.
>>> m4.keadaan
'lapar'
>>> m4.ucapkenSalam

latoop5.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo...
File Edit Format Run Options Window Help
from latoop4 import Mahasiswa
class MhsTIF(Mahasiswa):
    """ Class MhsTIF yang dibangun dari class mahasiswa"""
    def katakanPy(self):
        print("Python is cool")
```

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64-bit]
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo...
Salam, namaku anisa
>>> m1 = Mahasiswa ("Jamil",234,"Surakarta",250000)
>>> m2 = Mahasiswa ("Andi",365,"Magelang",275000)
>>> m3 = Mahasiswa ("Sri",676,"Yogyakarta",240000)
>>> m1.ambilNama()
'Jamil'
>>> m2.ambilNIM()
365
>>> m3.ucapkenSalam()
Salam, namaku Sri
>>> m3.keadaan
'lapar'
>>> m3.makan("gado-gado")
Saya baru saja makan gado-gado sambil belajar.
>>> m3.keadaan
'lapar'
>>> print(m3)
Sri, NIM676. Tinggal di Yogyakarta. Uang saku Rp 240000, tiap bulannya.
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo...
Salam, namaku anisa
>>> m4 = MhsTIF("Badu",334,"Sragen",230000)
>>> m4.katakanPy
<bound method MhsTIF.katakanPy of <__main__.MhsTIF object at 0x0000016936DFD4C8>>
>>> m4.katakanPy()
Python is cool
>>> print(m4)
Badu, NIM334. Tinggal di Sragen. Uang saku Rp 230000, tiap bulannya.
>>> m4.keadaan
'lapar'
>>> m4.makan("pecel")
Saya baru saja makan pecel sambil belajar.
>>> m4.keadaan
'lapar'
>>> m4.ucapkenSalam()
Salam, namaku Badu
>>>

latoop5.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo...
File Edit Format Run Options Window Help
from latoop4 import Mahasiswa
class MhsTIF(Mahasiswa):
    """ Class MhsTIF yang dibangun dari class mahasiswa"""
    def katakanPy(self):
        print("Python is cool")
Ln: 6 Col: 0
Ln: 41 Col: 4
```

Latihan2.6

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64-bit]
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo...
Salam, namaku anisa
>>> m4 = MhsTIF("Badu",334,"Sragen",230000)
>>> m4.katakanPy
<bound method MhsTIF.katakanPy of <__main__.MhsTIF object at 0x0000016936DFD4C8>>
>>> m4.katakanPy()
Python is cool
>>> print(m4)
Badu, NIM334. Tinggal di Sragen. Uang saku Rp 230000, tiap bulannya.
>>> m4.keadaan
'lapar'
>>> m4.makan("pecel")
Saya baru saja makan pecel sambil belajar.
>>> m4.keadaan
'lapar'
>>> m4.ucapkenSalam()
Salam, namaku Badu
>>> daftar = [m1, m2, m3]
Traceback (most recent call last):
  File "<pyshell#18>", line 1, in <module>
    daftar = [m1, m2, m3]
NameError: name 'm1' is not defined
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo...
Salam, namaku anisa
>>> daftar = [m1,m2,m3]
>>> for i in daftar : print(i.NIM)
234
365
676
>>> for i in daftar : print(i)
Jamil, NIM234. Tinggal di Surakarta. Uang saku Rp 250000, tiap bulannya.
Andi, NIM365. Tinggal di Magelang. Uang saku Rp 275000, tiap bulannya.
Sri, NIM676. Tinggal di Yogyakarta. Uang saku Rp 240000, tiap bulannya.
>>> daftar[2].ambilNama()
'Sri'
>>>

latoop4.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo...
File Edit Format Run Options Window Help
from latoop3 import Manusia
class Mahasiswa(Manusia):
    """ Class Mahasiswa yang dibangun dari class Manusia."""
    def __init__(self,nama,NIM,kota,us):
        """ Metode inisiasi ini menutupi metode inisiasi di class Manusia."""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ", NIM" + str(self.NIM) \
            + ". Tinggal di " + self.kotaTinggal \
            + ". Uang saku Rp " + str(self.uangSaku) \
            + ", tiap bulannya."
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self,s):
        """ Metode ini menutupi metode 'makan'-nya class Manusia.
        Mahasiswa kalau makan sambil belajar."""
        print("Saya baru saja makan",s,"sambil belajar.")
m1 = Mahasiswa("Jamil", 234,"Surakarta", 250000)
m2 = Mahasiswa("Andi",365,"Magelang",275000)
m3 = Mahasiswa("Sri",676,"Yogyakarta",240000)
Ln: 30 Col: 0
Ln: 41 Col: 4
```

Latihan2.7

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
>>> m4 = MhsTIF("Badu",334,"Sragen",230000)
>>> m4.katakanPy
<bound method MhsTIF.katakanPy of <__main__.MhsTIF object at 0x0000016936DFD4C8>>
>>> m4.katakanPy()
Python is cool
>>> print(m4)
Badu, NIM334. Tinggal di Sragen. Uang saku Rp 230000, tiap bulannya.
>>> m4.keadaan
'lapar'
>>> m4.makan("pecel")
Saya baru saja makan pecel sambil belajar.
>>> m4.keadaan
'lapar'
>>> m4.ucapkenSalam()
Salam, namaku Badu
>>> daftar = [m1, m2, m3]
Traceback (most recent call last):
  File "<pyshell#18>", line 1, in <module>
    daftar = [m1, m2, m3]
NameError: name 'm1' is not defined
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\
Salam, namaku anisa
>>> daftar = [m1,m2,m3]
>>> for i in daftar : print(i.NIM)

234
365
676
>>> for i in daftar : print(i)

Jamil, NIM234. Tinggal di Surakarta. Uang saku Rp 250000, tiap bulannya.
Andi, NIM365. Tinggal di Magelang. Uang saku Rp 275000, tiap bulannya.
Sri, NIM676. Tinggal di Yogyakarta. Uang saku Rp 240000, tiap bulannya.
>>> daftar[2].ambilNama()
'Sri'
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\
70
Indonesia
>>>
```

```
latoop7.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algo...
File Edit Format Run Options Window Help
class kelasKosongan(object):
    pass

k = kelasKosongan()
k.x = 23
k.y = 47
print(k.x + k.y)
k.mystr = "Indonesia"
print(k.mystr)
```

Tugas :

Nomor1

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 bit
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algost
>>> p9 = Pesan("Indonesia adalah negeri yang indah")
>>> p9.apakahTerKandung("ege")
True
>>> p9.apakahTerKandung("eka")
False
>>> p10 = Pesan("Surakarta")
>>> p10.hitungKonsonan()
5
>>> p10.hitungVokal()
4
>>>
```

```
*1.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk...
File Edit Format Run Options Window Help
def __init__(self, sebuahString):
    self.teks = sebuahString
def cetakIni(self):
    print(self.teks)
def cetakPakaiHurufKapital(self):
    print(str.upper(self.teks))
def cetakPakaiHurufKecil(self):
    print(str.lower(self.teks))
def jumlah(self):
    return len(self.teks)
def cetakJumlahKarakterku(self):
    print('kalimatku mempunyai', len(self.teks), 'karakter.')
def perbarui(self, stringBaru):
    self.teks = stringBaru

#a
def apakahTerKandung(self, a):
    if a in self.teks:
        return True
    else:
        return False
#b
def hitungKonsonan(self):
    kon = 0
    x = self.teks
    alfakon = "bcdfghjklmnpqrstvwxyzBCDFGHJKLMNPQRSTVWXYZ"
    for i in x:
        if i in alfakon:
            kon += 1
    return kon
#c
def hitungVokal(self):
    vok = 0
    x = self.teks
    alfavok = "aiueoAIUEO"
    for i in x:
        if i in alfavok:
            vok += 1
    return vok
Ln: 40 Col: 30
Ln: 15 Col: 4
```

Nomor2

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 bit
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algost
>>> m9 = Mahasiswa("Anisa",166,"BoyoLali",10000000)
>>> m9.ambilKotaTinggal()
'BoyoLali'
>>> m9.perbaruiKotaTinggal("Surakarta")
>>> m9.ambilKotaTinggal()
'Surakarta'
>>> m7 = Mahasiswa("Lala",176,"Selo",25000000)
>>> m7.ambilUangSaku()
25000000
>>> m7.tambahUangSaku(20000000)
Traceback (most recent call last):
  File "<pyshell#6>", line 1, in <module>
    m7.tambahUangSaku(20000000)
AttributeError: 'Mahasiswa' object has no attribute 'tambahUangSaku'
>>> m7.TambahUangSaku(20000)
25020000
>>>
```

```
2.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk...
File Edit Format Run Options Window Help
self.keadaan = 'lapar'
def mengalikanDenganDua(self, n):
    return n * 2

class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dari class Manusia."""
    def __init__(self, nama, NIM, kota, us):
        """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ', NIM ' + str(self.NIM) \
            + '. Tinggal di ' + self.kotaTinggal \
            + ' tiap bulannya.'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self, s):
        """Metode ini menutupi metode 'makan'-nya class manusia.
        Mahasiswa kalau makan sambil belajar."""
        print("Saya baru saja makan", s, "Sambil belajar.")
        self.keadaan = 'kenyang'

#(a)
def ambilKotaTinggal(self):
    return self.kotaTinggal
#(b)
def perbaruiKotaTinggal(self, ubah):
    self.kotaTinggal = ubah
#(c)
def TambahUangSaku(self, tambah):
    self.uangSaku += tambah
Ln: 5 Col: 0
Ln: 22 Col: 4
```


Nomor3

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 bit
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algot
Masukkan Data Mahasiswa Disini :
Nama      : Anisa
NIM       : 135
Asal      : Byl
Uang Saku : 9000000
Silahkan Ketik 'maha.instruksi' untuk menjalankan program yang
kalian inginkan.
>>>
```

```
3.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk-...
File Edit Format Run Options Window Help
"""Class Mahasiswa yang dibangun dari class Manusia."""
def __init__(self, nama, NIM, kota, us):
    """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
    self.nama = nama
    self.NIM = NIM
    self.kotaTinggal = kota
    self.uangSaku = us
def __str__(self):
    s = self.nama + ', NIM ' + str(self.NIM) \
        + '. Tinggal di ' + self.kotaTinggal \
        + ' tiap bulannya.'
    return s
def ambilNama(self):
    return self.nama
def ambilNIM(self):
    return self.NIM
def ambilUangSaku(self):
    return self.uangSaku
def makan(self, s):
    """Metode ini menutupi metode 'makan'-nya class manusia.
    Mahasiswa kalau makan sambil belajar."""
    print("Saya baru saja makan", s, "Sambil belajar.")
    self.keadaan = 'kenyang'
def ambilKotaTinggal(self):
    return self.kotaTinggal
def perbaruiKotaTinggal(self, ubah):
    self.kotaTinggal = ubah
def tambahUangSaku(self, tambah):
    self.uangSaku += tambah

print("Masukkan Data Mahasiswa Disini :")
a = input("Nama      : ")
b = input("NIM       : ")
c = input("Asal      : ")
d = input("Uang Saku : ")
maha = Mahasiswa(a, b, c, d)
print("""Silahkan Ketik 'maha.instruksi' untuk menjalankan program yang
kalian inginkan.""")
```

Nomor4

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 bit
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algot
>>> m234 = Mahasiswa("Anisa",135,"Byl",10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>>
```

```
4.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk-...
File Edit Format Run Options Window Help
# nomor4

class Manusia(object):
    """class 'Manusia' dengan inisiasi 'nama'"""
    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 mengalikanDua(self, n):
        return n * 2

class Mahasiswa(Manusia):
    """class Mahasiswa yang dibangun dari class Manusia."""
    def __init__(self, nama, NIM, kota, us):
        """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ', NIM ' + str(self.NIM) \
            + '. Tinggal di ' + self.kotaTinggal \
            + ' tiap bulannya.'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self, s):
        """Metode ini menutupi metode 'makan'-nya class manusia.
```

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7rc1 (tags/v3.7.7rc1:93b7677f9c, Mar 4 2020, 12:05:18) [MSC v.1900 64 bit
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algos
>>> m234 = Mahasiswa("Anisa",135,"Byl",10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>>
```

```
4.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk-...
File Edit Format Run Options Window Help
self.keadaan = 'lapar'
def mengalikanDua(self, n):
    return n * 2

class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dari class Manusia."""
    def __init__(self, nama, NIM, kota, us):
        """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ', NIM ' + str(self.NIM) \
            + '. Tinggal di ' + self.kotaTinggal \
            + ' tiap bulannya.'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self, s):
        """Metode ini menutupi metode 'makan'-nya class manusia.
        Mahasiswa kalau makan sambil belajar."""
        print("Saya baru saja makan", s, "Sambil belajar.")
        self.keadaan = 'kenyang'

    def ambilKotaTinggal(self):
        return self.kotaTinggal
    def perbaruiKotaTinggal(self, ubah):
        self.kotaTinggal = ubah
    def tambahUangSaku(self, tambah):
        self.uangSaku += tambah

listKuliah = []
def ambilKuliah(self, kuliah):
    self.listKuliah.append(kuliah)
```

Nomor5

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algos
>>> m234 = Mahasiswa("Anisa",135,"Byl",10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Pyth
>>> print(m234.listKuliah)
Traceback (most recent call last):
  File "<pyshell#6>", line 1, in <module>
    print(m234.listKuliah)
NameError: name 'm234' is not defined
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Pyth
>>> print(m234.listKuliah)
Traceback (most recent call last):
  File "<pyshell#7>", line 1, in <module>
    print(m234.listKuliah)
NameError: name 'm234' is not defined
>>> m234 = Mahasiswa("Anisa",135,"Byl",10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>> print(m234.listKuliah)
['matematika diskrit', 'algostruk']
>>> for i in m234.listKuliah:del m234.listKuliah[i]
>>> m234.listKuliah
['matematika diskrit']
>>>
```

```
*5.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk-...
File Edit Format Run Options Window Help
# nomor5
class Manusia(object):
    """class 'Manusia' dengan inisiasi 'nama'"""
    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 mengalikanDua(self, n):
        return n * 2

class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dari class Manusia."""
    def __init__(self, nama, NIM, kota, us):
        """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ', NIM ' + str(self.NIM) \
            + '. Tinggal di ' + self.kotaTinggal \
            + ' tiap bulannya.'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self, s):
        """Metode ini menutupi metode 'makan'-nya class manusia.
        Mahasiswa kalau makan sambil belajar."""
        print("Saya baru saja makan", s, "Sambil belajar.")
```

The image shows a Python 3.7.7rc1 Shell window on the left and a Python file editor on the right. The shell window displays the execution of a script that defines a class hierarchy and a list of students. The file editor shows the source code for the script.

```
>>> = RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk.py
>>> m234 = Mahasiswa("Anisa", 135, "Byl", 10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk.py
>>> print(m234.listKuliah)
Traceback (most recent call last):
  File "<pyshell#6>", line 1, in <module>
    print(m234.listKuliah)
NameError: name 'm234' is not defined
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk.py
>>> print(m234.listKuliah)
Traceback (most recent call last):
  File "<pyshell#7>", line 1, in <module>
    print(m234.listKuliah)
NameError: name 'm234' is not defined
>>> m234 = Mahasiswa("Anisa", 135, "Byl", 10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>> print(m234.listKuliah)
['matematika diskrit', 'algostruk']
>>> for i in m234.listKuliah:del m234.listKuliah[i]

>>> m234.listKuliah
['matematika diskrit']
>>>
```

```
class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dari class Manusia."""
    def __init__(self, nama, NIM, kota, us):
        """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ', NIM ' + str(self.NIM) \
            + '. Tinggal di ' + self.kotaTinggal \
            + ' tiap bulannya.'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self, s):
        """Metode ini menutupi metode 'makan'-nya class manusia.
        Mahasiswa kalau makan sambil belajar."""
        print("Saya baru saja makan", s, "Sambil belajar.")
        self.keadaan = 'kenyang'
    def ambilKotaTinggal(self):
        return self.kotaTinggal
    def perbaruiKotaTinggal(self, ubah):
        self.kotaTinggal = ubah
    def tambahUangSaku(self, tambah):
        self.uangSaku += tambah

listKuliah = []
def ambilKuliah(self, kuliah):
    self.listKuliah.append(kuliah)
def hapusKuliah(self, hapus):
    self.listKuliah.remove(hapus)
```

Nomor6

The image shows a Python 3.7.7rc1 Shell window on the left and a Python file editor on the right. The shell window displays the execution of a script that defines a class hierarchy and a list of students. The file editor shows the source code for the script.

```
>>> m234 = Mahasiswa("Anisa", 135, "Byl", 10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk.py
>>> print(m234.listKuliah)
Traceback (most recent call last):
  File "<pyshell#6>", line 1, in <module>
    print(m234.listKuliah)
NameError: name 'm234' is not defined
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk.py
>>> print(m234.listKuliah)
Traceback (most recent call last):
  File "<pyshell#7>", line 1, in <module>
    print(m234.listKuliah)
NameError: name 'm234' is not defined
>>> m234 = Mahasiswa("Anisa", 135, "Byl", 10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>> print(m234.listKuliah)
['matematika diskrit', 'algostruk']
>>> for i in m234.listKuliah:del m234.listKuliah[i]

>>> m234.listKuliah
['matematika diskrit']
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk.py
>>>
```

```
class Manusia(object):
    """class 'Manusia' dengan inisiasi 'nama'"""
    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 dari class Manusia."""
    def __init__(self, nama, NIM, kota, us):
        """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ', NIM ' + str(self.NIM) \
            + '. Tinggal di ' + self.kotaTinggal \
            + ' tiap bulannya.'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self, s):
        """Metode ini menutupi metode 'makan'-nya class manusia.
        Mahasiswa kalau makan sambil belajar."""
```

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
>>> m234 = Mahasiswa("Anisa",135,"Byl",10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\
Traceback (most recent call last):
  File "<pyshell#6>", line 1, in <module>
    print(m234.listKuliah)
NameError: name 'm234' is not defined
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\
Traceback (most recent call last):
  File "<pyshell#7>", line 1, in <module>
    print(m234.listKuliah)
NameError: name 'm234' is not defined
>>> m234 = Mahasiswa("Anisa",135,"Byl",10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>> print(m234.listKuliah)
['matematika diskrit', 'algostruk']
>>> for i in m234.listKuliah:del m234.listKuliah[i]
>>>
>>> m234.listKuliah
['matematika diskrit']
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\
>>>

6.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk...
File Edit Format Run Options Window Help

class Mahasiswa(Manusia):
    """class Mahasiswa yang dibangun dari class Manusia."""
    def __init__(self, nama, NIM, kota, us):
        """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ', NIM ' + str(self.NIM) \
            + '. Tinggal di ' + self.kotaTinggal \
            + ' tiap bulannya.'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self, s):
        """Metode ini menutupi metode 'makan'-nya class manusia.
        Mahasiswa kalau makan sambil belajar."""
        print("Saya baru saja makan", s, "Sambil belajar.")
        self.keadaan = 'kenyang'
    def ambilKotaTinggal(self):
        return self.kotaTinggal
    def perbaruiKotaTinggal(self, ubah):
        self.kotaTinggal = ubah
    def tambahUangSaku(self, tambah):
        self.uangSaku += tambah

listKuliah = []
def ambilKuliah(self, kuliah):
    self.listKuliah.append(kuliah)
def hapusKuliah(self, hapus):
    self.listKuliah.remove(hapus)

class SiswaSMA(Manusia):
    def __init__(self, nama, NISN, uangSaku, alamat):
        self.nama = nama
        self.nisn = NISN
        self.uangSaku = uangSaku
        self.alamat = alamat
    def __str__(self):
        a = "Nama      : " + str(self.nama) + '\n' \
            + "NISN      : " + str(self.nisn) + '\n' \
            + "Alamat    : " + str(self.alamat) + '\n' \
            + "Uang Saku : " + str(self.uangSaku)
        return a
```

```
Python 3.7.7rc1 Shell
File Edit Shell Debug Options Window Help
>>> m234 = Mahasiswa("Anisa",135,"Byl",10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\
Traceback (most recent call last):
  File "<pyshell#6>", line 1, in <module>
    print(m234.listKuliah)
NameError: name 'm234' is not defined
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\
Traceback (most recent call last):
  File "<pyshell#7>", line 1, in <module>
    print(m234.listKuliah)
NameError: name 'm234' is not defined
>>> m234 = Mahasiswa("Anisa",135,"Byl",10000000)
>>> m234.listKuliah
[]
>>> m234.ambilKuliah("matematika diskrit")
>>> m234.listKuliah
['matematika diskrit']
>>> m234.ambilKuliah("algostruk")
>>> m234.listKuliah
['matematika diskrit', 'algostruk']
>>> print(m234.listKuliah)
['matematika diskrit', 'algostruk']
>>> for i in m234.listKuliah:del m234.listKuliah[i]
>>>
>>> m234.listKuliah
['matematika diskrit']
>>>
===== RESTART: C:\Users\acer\AppData\Local\Programs\Python\Python37\
>>>

6.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk...
File Edit Format Run Options Window Help

    + ' tiap bulannya.'
        return s
    def ambilNama(self):
        return self.nama
    def ambilNIM(self):
        return self.NIM
    def ambilUangSaku(self):
        return self.uangSaku
    def makan(self, s):
        """Metode ini menutupi metode 'makan'-nya class manusia.
        Mahasiswa kalau makan sambil belajar."""
        print("Saya baru saja makan", s, "Sambil belajar.")
        self.keadaan = 'kenyang'
    def ambilKotaTinggal(self):
        return self.kotaTinggal
    def perbaruiKotaTinggal(self, ubah):
        self.kotaTinggal = ubah
    def tambahUangSaku(self, tambah):
        self.uangSaku += tambah

listKuliah = []
def ambilKuliah(self, kuliah):
    self.listKuliah.append(kuliah)
def hapusKuliah(self, hapus):
    self.listKuliah.remove(hapus)

class SiswaSMA(Manusia):
    def __init__(self, nama, NISN, uangSaku, alamat):
        self.nama = nama
        self.nisn = NISN
        self.uangSaku = uangSaku
        self.alamat = alamat
    def __str__(self):
        a = "Nama      : " + str(self.nama) + '\n' \
            + "NISN      : " + str(self.nisn) + '\n' \
            + "Alamat    : " + str(self.alamat) + '\n' \
            + "Uang Saku : " + str(self.uangSaku)
        return a
```

Nomor7

```
7.py - C:\Users\acer\AppData\Local\Programs\Python\Python37\tugas algostruk\algostruk-nsa\7.py (3.7.7rc1)
File Edit Format Run Options Window Help

# nomor7

import no2_modul2          # Atau apapun file-nya yang kamu buat tadi

class MhsTIF(no2_modul2.Mahasiswa):    # perhatikan class induknya : Mahasiswa
    """Class MhsTIF yang dibangun dari class Mahasiswa"""
    def kataKamuPy(self):
        print('Python is cool.')

# Apakah metode / state itu berasal dari class Manusia, Mahasiswa, atau MhsTIF?

# Jawab :

# Metode atau state yang muncul berasal dari semua class baik Manusia, Mahasiswa, atau MhsTIF.
# Ini karena MhsTIF yang merupakan anak class dari Mahasiswa, dan itu membuat MhsTIF mewarisi
# semua properties dari Mahasiswa dan Manusia.
```

Ln: 1 Col: 0