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Kelas: A

MODUL 2. Mengenal OOP pada Python

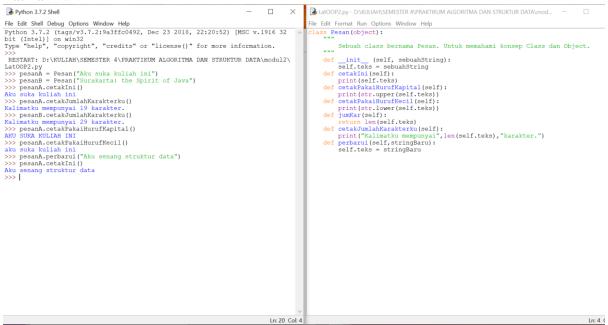
2.1 Module

Latihan 2.1

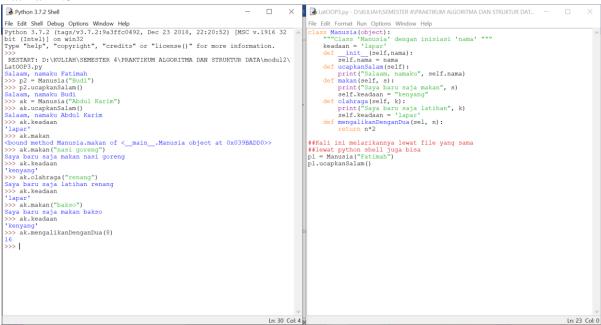
```
>>> dir()
['_annotations_', '_builtins_', '_doc_', '_file_', '_loader_', '_nam e_', '_package_', '_spec_', 'buah', 'daftarBaju', 'jumlahBaju', 'kuadratka n', 'ltl', 'ucap', 'ucapkanSalam']
>>> import math as m
>>> dir()
['_annotations_', '_builtins_', '_doc_', '_file_', '_loader_', '_nam e_', '_package_', '_spec_', 'buah', 'daftarBaju', 'jumlahBaju', 'kuadratka n', 'ltl', 'm', 'ucap', 'ucapkanSalam']
>>> dir(m)
['__doc__', '__loader__', '__name__', '__package__', '__spec__', 'acos', 'acosh
', 'asin', 'asinh', 'atan', 'atan2', 'atanh', 'ceil', 'copysign', 'cos', 'cosh'
', 'asin', 'asinh', 'atan', 'atan2', 'atanh', 'ceil', 'copysign', 'cos', cosn, 'degrees', 'e', 'erf', 'erfc', 'exp', 'expm1', 'fabs', 'factorial', 'floor', 'fmod', 'frexp', 'fsum', 'gamma', 'gcd', 'hypot', 'inf', 'isclose', 'isfinite', 'isinf', 'isnan', 'ldexp', 'lgamma', 'log', 'log10', 'log1p', 'log2', 'modf', 'nan', 'pi', 'pow', 'radians', 'remainder', 'sin', 'sinh', 'sqrt', 'tan', 'tanh'
>>> from sys import *
>>> dir()
['_annotations_', '_builtins_', '_doc_', '_file_', '_loader_', '_nam e_', '_package_', '_spec_', 'api_version', 'argv', 'base_exec_prefix', 'ba se_prefix', 'breakpointhook', 'buah', 'builtin_module_names', 'byteorder', 'cal l_tracing', 'callstats', 'copyright', 'daftarBaju', 'displayhook', 'dllhandle', 'dont_write_bytecode', 'exc_info', 'excepthook', 'exec_prefix', 'executable', 'exit', 'flags', 'float_info', 'float_repr_style', 'get_asyncgen_hooks', 'get_co routine_origin_tracking_depth', 'get_coroutine_wrapper', 'getallocatedblocks',
 'getcheckinterval', 'getdefaultencoding', 'getfilesystemencodeerrors', 'getfile
systemencoding', 'getprofile', 'getrecursionlimit', 'getrefcount', 'getsizeof', 'getswitchinterval', 'gettrace', 'getwindowsversion', 'hash_info', 'hexversion', 'implementation', 'int_info', 'intern', 'is_finalizing', 'jumlahBaju', 'kuadr atkan', 'ltl', 'm', 'maxsize', 'maxunicode', 'meta_path', 'modules', 'path', 'p ath_hooks', 'path_importer_cache', 'platform', 'prefix', 'set_asyncgen_hooks',
'set_coroutine_origin_tracking_depth', 'set_coroutine_wrapper', 'setcheckinterv al', 'setprofile', 'setrecursionlimit', 'setswitchinterval', 'settrace', 'stder r', 'stdin', 'stdout', 'thread_info', 'ucap', 'ucapkanSalam', 'version', 'versi
on info', 'warnoptions', 'winver']
>>>
                                                                                                                                                                                                                            Ln: 36 Col: 4
```

2.2. Class dan Object

Latihan 2.2



Latihan 2.3



2.2.1 Pewarisan

Latihan 2.4

Latihan 2.5

```
RESTART: D:KULIAH\SEMESTER 4\PRAKTIKUM ALGORITMA DAN STRUKTUR DATA\modul2\
LatOOP3.py

>>> m4 = NheTIF("Badu", 334, "Sragen", 230000)

>>> m4.katakanPy()
Python is cool.

>>> print(m4)
Badu, NIM 334. Tinggal di Sragen. Uang saku Rp 230000 tiap bulannya.

>>> m4.keadaan
'lapar'

>>> m4.keadaan
'kenyang'

>>> m4.keadaan
'kenyang'

>>> m4.ucapkanSalam()
Salaam, namaku Badu

>>> |

Ln:64 Co:4
```

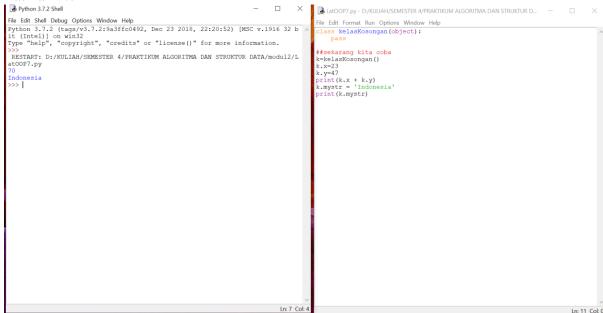
2.3 Object dan List

Latihan 2.6

```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
 RESTART: D:\KULIAH\SEMESTER 4\PRAKTIKUM ALGORITMA DAN STRUKTUR DATA\modul2\Lat0
OP3.py
>>> m1 = Mahasiswa("Jamil",234,"Surakarta",250000)
>>> m2 = Mahasiswa("Andi",365,"Magelang",275000)
>>> m3 = Mahasiswa("Sri",676,"Yogyakarta",240000)
>>> daftar = [m1, m2, m3]
>>> for i in daftar: print(i.NIM)
234
365
676
>>> for i in daftar: print(i)
Jamil, NIM 234. Tinggal di Surakarta. Uang saku Rp 250000 tiap bulannya.
Andi, NIM 365. Tinggal di Magelang. Uang saku Rp 275000 tiap bulannya.
Sri, NIM 676. Tinggal di Yogyakarta. Uang saku Rp 240000 tiap bulannya.
```

2.4 Class sebagai namespace

Latihan 2.7



TUGAS

```
Python 3.7.2 Shell
                                                                                                                                                                                                                                                                                                                          \times
                                                                                                                                                                                                                                                                                                                                                                             🕞 02.py - D:/KULIAH/SEMESTER 4/PRAKTIKUM ALGORITMA DAN STRUKTUR DATA/02.py (3.7.2) —
                                                                                                                                                                                                                                                                                                                                                                              20.py - D./KULIAH/SEMESTER 4/PRAKTIKUM ALGORITMA DAN STR
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 ("halo namaku: ", self.nama)
    def makan (self,s):
    print ("aya baru saja makan ", s)
    self.keadaan = 'kenyang'
def olah (self,k):
    self.keadaan='lapar'
def kali (self,n):
    return n'2

Class Makaira (self):
    File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 /blt (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
       >>>
= RESTART: D:/KULIAH/SEMESTER 4/PRAKTIKUM ALGORITMA DAN STRUKTUR DATA/02.py
    >>> ml = Mahasiswa("Nur",453,"Sragen",230000)
>>> ml.ambilKotaTinggal()
'Sragen'
>>> ml.ambilKotaTinggal("Surakarta")
>>> ml.ambilKotaTinggal("Surakarta")
Surakarta
>>> ml.ambilKotaTinggal()
20urakarta
->> ml.ambilKotaTinggal()
                                                                                                                                                                                                                                                                                                                                                                                  class Mahasiswa (Manusia):

"""Class Mahasiswa yang dibangun dari 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\
    +'. tian gaku Rp '+str(self.uang)\
    +'. tiap bulan'
    return S
       250000
>>> |
                                                                                                                                                                                                                                                                                                                                                                                            + . Uang Saku kp + str(Self.Uang)(
+ t. tiap bulan'

return s

def ambilNama(self):
    return self.nama
    def ambilNM(self):
    return self.NIM

def ambilUangSaku(self):
    return self.Uang

def makan(self,s):
    print ("saya baru saja makan",s,"sambil belajar")
    self.keadaam='kenyang'

def ambilKotaTinggal(self):
    return self.kota
    def perbarulKotaTinggal(self,k):
                                                                                                                                                                                                                                                                                                                              Ln: 16 Col: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ln: 16 Co
@ 02.py - D/KULIAH/SEMESTER 4/PRAKTIKUM ALGORITMA DAN STRI
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 usapsalam (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):
  3 02.py - D:/Kuliah/semester 4/Praktikum algoritma dan struktur data/02.py (3.7.2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       - 5
                   def kali(self,n):
return n*2
  class Mahasiswa (Manusia):
    """Class Mahasiswa yang dibangun dari class Manusia"""
    def    init    (self,nama,NIM,kota,us):
        self.nama-nama
        self.NIM-NIM
        self.kota-kota
        self.uang-us

def    str    (self):
        seself.nama+'NIM '+str(self.NIM)\
        +'.tinggal di '+self.kota\
        +'.uang saku Rp '+str(self.uang)\
        +'.tip bulan'
    return s

def ambilNama(self):
    return self.nama
def ambilNIM(self):
    return self.NIM
def ambilNIM(self):
    return self.uang
def makan(self,s):
    print ("saya baru saja makan",s,"sambil belajar")
    self.keadaan='kenyang'
def ambilKotaTinggal(self):
                   self.keadaan='kenyang'
def ambifkotaTinggal(self):
return self.kota
def perbaruiKotaTinggal(self,k):
self.kota=k
def ambahUangSaku(self,n):
self.uang4=n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ln: 46 Col: 0
```

Nomor 3

```
Python 3.72 Shell
Python 3.72 Shell
Python 3.72 Ctagg/V3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> Sharkf: P\NULIAH\SEMESTER 4\PRACTIKUM ALGORITMA DAN STRUKTUR DATA\No.3.py
| Manukkan Shark Anda | 453 |
| Manukkan Shark Anda | 230000
| Shark Anda | 230000
| Shark Anda | 230000
| Shark Anda | 230000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 30000 | 300000 | 300000 | 300000 | 300000 | 300000 | 300000 | 3000000 | 3000000 |
```

Nomor 5

