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Kelas : A

- Latihan 2.1

ModulePythonPertamaku.py - D:\MODUL\_2\ModulePythonPertamaku.py (3.8.2)

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```
def ucapkanSalam():
    print("Assalamu'alikum")

def kuadratkan(x):
    return x * x

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

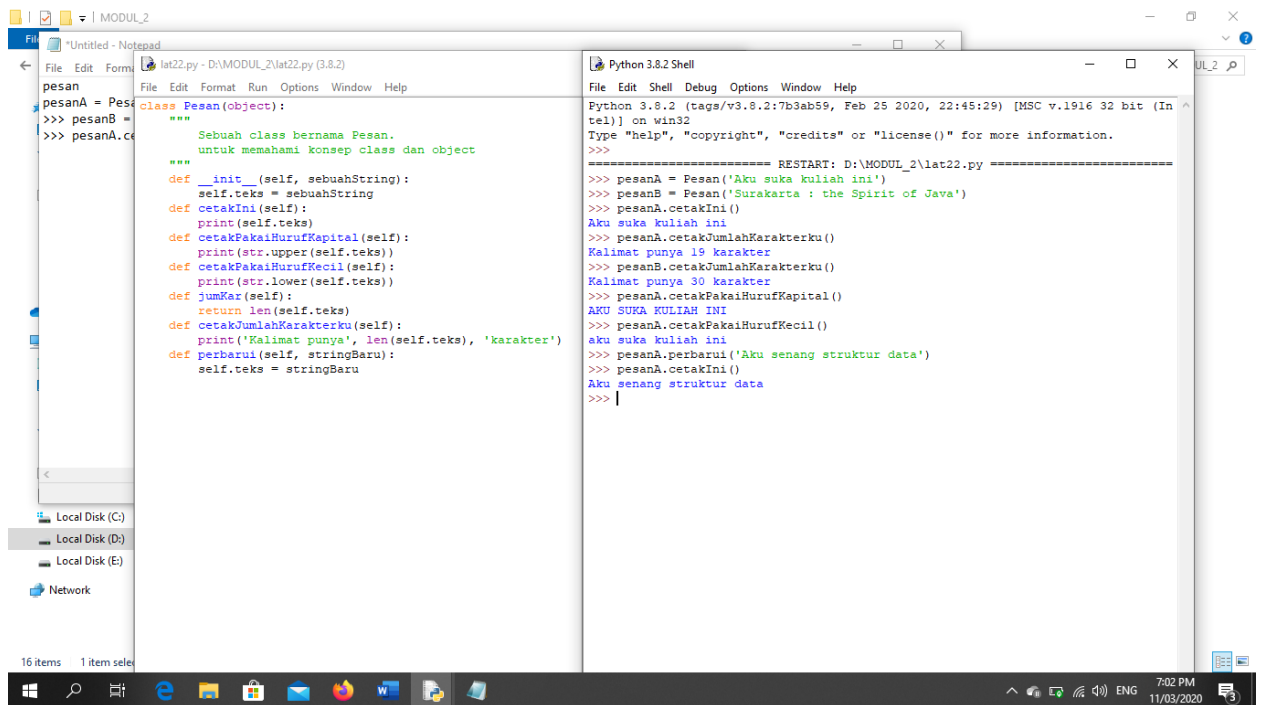
Python 3.8.2 Shell

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```
>>>
>>> ===== RESTART: D:\MODUL_2\ModulePythonPertamaku.py =====
>>> import ModulePythonPertamaku
>>> ModulePythonPertamaku.ucapkanSalam()
Assalamu'alikum
>>> ModulePythonPertamaku.kuadratkan(5)
25
>>> ModulePythonPertamaku.buah
'Mangga'
>>> import ModulePythonPertamaku as mpp
>>> mpp.ucapkanSalam()
Assalamu'alikum
>>> mpp.daftarBaju
['batik', 'loreng', 'resmi berdasi']
>>> mpp.jumlahBaju
3
>>> from ModulePythonPertamaku import ucapkanSalam as ucap
>>> ucap()
Assalamu'alikum
>>> dir()
['ModulePythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__', 'buah', 'daftarBaju', 'jumlahBaju', 'kuadratkan', 'mpp', 'ucapkan', 'ucapkanSalam']
>>> import math as m
>>> dir()
['ModulePythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__', 'buah', 'daftarBaju', 'jumlahBaju', 'kuadratkan', 'm', 'mpp', 'ucapkan', 'ucapkanSalam']
>>> dir(m)
['__doc__', '__loader__', '__name__', '__package__', '__spec__', 'acos', 'acosh', 'asin', 'asinh', 'atan', 'atan2', 'atanh', 'ceil', 'comb', 'copysign', 'cos', 'cosh', 'degrees', 'dist', 'e', 'erf', 'erfc', 'exp', 'expm1', 'fabs', 'factorial', 'floor', 'fmod', 'frexp', 'fsun', 'gamma', 'gcd', 'hypot', 'inf', 'isclose', 'isfinite', 'isinf', 'isnan', 'isqrt', 'ldexp', 'lgamma', 'log', 'log10', 'loglp', 'log2', 'modf', 'nan', 'perm', 'pi', 'pow', 'prod', 'radians', 'remainder', 'sin', 'sinh', 'sqrt', 'tan', 'tanh', 'tau', 'trunc']
>>> from sys import *
>>> dir()
['ModulePythonPertamaku', '__annotations__', '__builtins__', '__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__', 'addaudithook', 'api_version', 'argv', 'audit', 'base_exec_prefix', 'base_prefix', 'breakpoint', 'buah', 'builtin_module_names', 'byteorder', 'call_tracing', 'callstats', 'copyright', 'daftarBaju', 'displayhook', 'dlshandle', 'dont_write_bytecode', 'exc_info', 'excepthook', 'exec_prefix', 'executable', 'exit', 'flags', 'float_info', 'float_repr_style', 'get_asyncgen_hooks', 'get_coroutine_origin_tracking_depth', 'getallocatedblocks', 'getcheckinterval', 'getdefaultencoding', 'getfilesystemencodingerrors', 'getfilesystemencoding', 'getprofile', 'getrecursionlimit', 'getrefcount', 'getsizeof', 'getswitchinterval', 'gettrace', 'getwindowsversion', 'hash_info', 'hexversion', 'implementation', 'int_info', 'intern', 'is_finalizing', 'jumlahBaju', 'kuadratkan', 'm', 'maxsize', 'maxunicode', 'meta_path', 'modules', 'mpp', 'path', 'path_hooks', 'path_importer_cache', 'platform', 'prefix', 'pycache_prefix', 'set_asyncgen_hooks', 'set_coroutine_origin_tracking_depth', 'setcheckinterval', 'setprofile', 'setrecursionlimit', 'setswitchinterval', 'settrace', 'stderr', 'stdin', 'stdout', 'thread_info', 'ucap', 'ucapkanSalam', 'unraisablehook', 'version', 'version_info', 'warnoptions', 'winver']
```

Ln: 32 Col: 4

## • Latihan 2.2

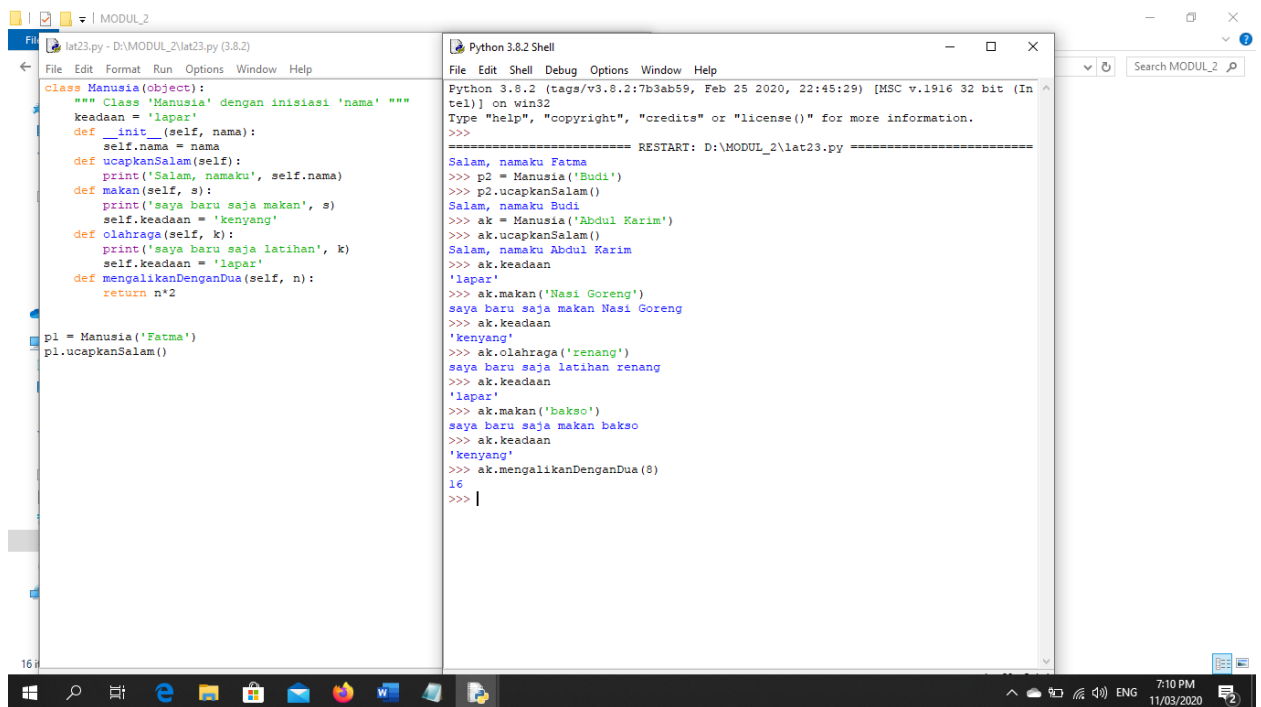


The screenshot shows a Python 3.8.2 IDE with a file named 'lat22.py'. The code defines a class 'Pesan' with methods for initializing a message, printing it, and performing various operations on the message string. The Python Shell on the right shows the execution of the code, including the creation of 'pesanA' and 'pesanB' objects and the execution of their methods.

```
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 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('Kalimat punya', len(self.teks), 'karakter')
    def perbarui(self, stringBaru):
        self.teks = stringBaru

pesanA = Pesan('Aku suka kuliah ini')
pesanB = Pesan('Surakarta : the Spirit of Java')
pesanA.cetakIni()
pesanA.cetakJumlahKarakterku()
pesanB.cetakJumlahKarakterku()
pesanA.cetakPakaiHurufKapital()
pesanA.cetakPakaiHurufKecil()
pesanA.perbarui('Aku senang struktur data')
pesanA.cetakIni()
```

## • Latihan 2.3



The screenshot shows a Python 3.8.2 IDE with a file named 'lat23.py'. The code defines a class 'Manusia' with methods for initializing a person, printing their name, and performing various actions. The Python Shell on the right shows the execution of the code, including the creation of 'p1', 'p2', and 'ak' objects and the execution of their methods.

```
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

p1 = Manusia('Fatma')
p1.ucapkanSalam()

p2 = Manusia('Budi')
p2.ucapkanSalam()

ak = Manusia('Abdul Karim')
ak.ucapkanSalam()
ak.keadaan
ak.makan('Nasi Goreng')
ak.keadaan
ak.olahraga('renang')
ak.keadaan
ak.makan('bakso')
ak.keadaan
ak.mengalikanDua(6)
```

## • Latihan 2.4

```

lat24.py - D:\MODUL_2\lat24.py (3.8.2)
File Edit Format Run Options Window Help

self.keadaan = 'kenyang'

def olahraga(self, k):
    print('saya baru saja latihan', k)
    self.keadaan = 'lapar'

def mengalihDua(self, n):
    return n * 2

class Mahasiswa(Manusia):
    """Class Mahasiswa yg dibangun dari class Manusia"""
    def __init__(self, nama, NIM, kota, us):
        """Metode ini menutupi inisiasi dari 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):
        """Method ini menutupi method di Manusia"""
        print('Saya baru saja makan', s, 'sambil belajar')
        self.keadaan = 'kenyang'

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
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\MODUL_2\lat24.py =====
>>> m1 = Mahasiswa('Jamil', 234, 'Surakarta', 250000)
>>> m2 = Mahasiswa('Andi', 356, 'Magelang', 275000)
>>> m3 = Mahasiswa('Sri', 676, 'Yogyakarta', 240000)
>>> m1.ambilNama()
'Jamil'
>>> m2.ambilNIM()
356
>>> m3.ucapkanSalam()
Salam, namaku Sri
>>> m3.keadaan
'lapar'
>>> m3.makan('gado-gado')
Saya baru saja makan gado-gado sambil belajar
>>> m3.keadaan
'kenyang'
>>> print(m3)
Sri, NIM 676. Tinggal di Yogyakarta. Uang saku Rp 240000 tiap bulannya.
>>>
Ln: 22 Col: 4

```

## • Latihan 2.5

```

latOOP5.py - D:\MODUL_2\latOOP5.py (3.8.2)
File Edit Format Run Options Window Help

import latOOP4

class MhsTIF(latOOP4.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
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\MODUL_2\latOOP5.py =====
>>> m4 = MhsTIF('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.makan(pecel)
Traceback (most recent call last):
  File "<pyshell#4>", line 1, in <module>
    m4.makan(pecel)
NameError: name 'pecel' is not defined
>>> m4.makan('pecel')
SyntaxError: EOL while scanning string literal
>>> m4.makan('pecel')
Saya baru saja makan pecel sambil belajar
>>> m4.keadaan
'kenyang'
>>> m4.ucapkanSalam()
Salam, namaku Badu
>>>

```

## • Latihan 2.6

```

latOOP6.py - D:\MODUL_2\latOOP6.py (3.8.2)
File Edit Format Run Options Window Help

self.keadaan = 'kenyang'

def olahraga(self, k):
    print('Saya baru saja latihan', k)
    self.keadaan = 'lapar'

def menggaliDenganDua(self, n):
    return n * 2

class Mahasiswa(Manusia):
    """Class Mahasiswa yg dibangun dari class Manusia"""
    def __init__(self, nama, NIM, kota, us):
        """Metode ini menutupi inisiasi dari 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 method di Manusia"""
        print('Saya baru saja makan', s, 'sambil belajar')
        self.keadaan = 'kenyang'

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
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\MODUL_2\latOOP6.py =====
>>> daftar = [m1, m2, m3]
>>> for i in daftar: print(i.NIM)
234
356
676
>>> for i in daftar: print(i)
Jamil, NIM 234. Tinggal di Surakarta. Uang saku Rp 250000 tiap bulannya.
Andi, NIM 356. Tinggal di Magelang. Uang saku Rp 275000 tiap bulannya.
Sri, NIM 676. Tinggal di Yogyakarta. Uang saku Rp 240000 tiap bulannya.
>>> daftar[2].ambilNama()
'Sri'
>>>
Ln: 18 Col: 4

```

## • Latihan 2.7

```

latOOP7.py - D:\MODUL_2\latOOP7.py (3.8.2)
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)

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
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\MODUL_2\latOOP7.py =====
70
Indonesia
>>>
Ln: 7 Col: 4

```

## Soal-soal

### 1. Soal no 1

a.

<pre>1.py - D:\MODUL_2\1.py (3.8.2) File Edit Format Run Options Window Help class Pesan(object):     def __init__(self, sebuahString):         self.teks = sebuahString      def cetakIni(self):         print(self.teks)      def cetakPakaiKapital(self):         print(str.upper(self.teks))      def cetakPakaiKecil(self):         print(str.lower(self.teks))      def jumKar(self):         return len(self.teks)      def cetakJmlKar(self):         print('Kalimat punya', len(self.teks), 'karakter')      def perbarui(self, stringBaru):         self.teks = stringBaru  # 1a def apakahTerkandung(self, kata):     return kata in self.teks</pre>	<pre>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) tel) on win32 Type "help", "copyright", "credits" or "license()" for mor &gt;&gt;&gt; ===== RESTART: D:\MODUL_2\1.py ===== &gt;&gt;&gt; p9 = Pesan('Indonesia adalah negeri yang ndah') &gt;&gt;&gt; p9.apakahTerkandung('ege') True &gt;&gt;&gt; p9.apakahTerkandung('eka') False &gt;&gt;&gt;  </pre>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

b.

<pre># 1b def jumlahHurufKonsonan(self):     vokal = 'aiueoAIUEO'     kata = self.teks.lower()     jmlK = 0     pjgKata = len(kata)     for huruf in kata:         if huruf not in vokal:             jmlK += 1     return jmlK</pre>	<pre>&gt;&gt;&gt; ===== RESTART: D:\MODUL_2\1.py = &gt;&gt;&gt; p10 = Pesan('Surakarta') &gt;&gt;&gt; p10.jumlahHurufKonsonan() 5 &gt;&gt;&gt;</pre>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------

c.

<pre># 1c def jumlahHurufVokal(self):     vokal = 'aiueoAIUEO'     kata = self.teks.lower()     jmlV = 0     pjgKata = len(kata)     for huruf in kata:         if huruf in vokal:             jmlV += 1     return jmlV</pre>	<pre>/// ===== RESTART: D: &gt;&gt;&gt; p10 = Pesan('Surakarta') &gt;&gt;&gt; p10.jumlahHurufVokal() 4 &gt;&gt;&gt;</pre>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------

## 2. Soal nomor 2

```
2.py - D:\MODUL_2\2.py (3.8.2)
File Edit Format Run Options Window Help

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):
    """ Method ini menutupi method di Manusia """
    print('Saya baru saja makan', s, 'sambil belajar')
    self.keadaan = 'kenyang'

# 2a
def ambilKotaTinggal(self):
    return self.kotaTinggal

# 2b
def perbaruiKotaTinggal(self, ubah):
    self.kotaTinggal = ubah

# 2c
def tambahUangSaku(self, e):
    self.uangSaku += e
    return self.uangSaku

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
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\MODUL_2\2.py =====
>>> m7 = Mahasiswa('Ani',444,'Klaten',270000)
>>> m9 = Mahasiswa('Ridho',555,'Surabaya',300000)
>>> m9.ambilKotaTinggal()
'Surabaya'
>>> m9.perbaruiKotaTinggal('Sleman')
>>> m9.ambilKotaTinggal()
'Sleman'
>>> m7.ambilUangSaku()
270000
>>> m7.tambahUangSaku(50000)
320000
>>>
```

## 3. Soal nomor 3

```
3.py - D:\MODUL_2\3.py (3.8.2)
File Edit Format Run Options Window Help

"""Class Mahasiswa yg dibangun dari class Manusia"""
def __init__(self, nama, NIM, kota, us):
    """ Metode ini menutupi inisiasi dari 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):
    """ Method ini menutupi method di Manusia """
    print('Saya baru saja makan', s, 'sambil belajar')
    self.keadaan = 'kenyang'

# 3
print("Silahkan Masukkan Data Mahasiswa Di bawah Ini :")
a = input("Nama Mahasiswa      : ")
b = input("NIM Mahasiswa       : ")
c = input("Asal Mahasiswa      : ")
d = input("Uang Saku Mahasiswa   : ")
mhs = Mahasiswa(a, b, c, d)
print(str(mhs))

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
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\MODUL_2\3.py =====
Silahkan Masukkan Data Mahasiswa Di bawah Ini :
Nama Mahasiswa      : Galih Prayoga
NIM Mahasiswa       : 343
Asal Mahasiswa      : Lampung
Uang Saku Mahasiswa : 350000
Galih Prayoga, NIM 343. Tinggal di Lampung. Uang saku Rp 350000 tiap bulannya.
>>>
```

#### 4. Soal nomor 4

```
4.py - D:\MODUL_2\4.py (3.8.2)
File Edit Format Run Options Window Help

def mengaliDenganDua(self, n):
    return n * 2

class Mahasiswa(Manusia):
    """Class Mahasiswa yg dibangun dari class Manusia"""
    def __init__(self, nama, NIM, kota, us):
        """Metode ini menutupi inisiasi dari 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):
        """Method ini menutupi method di Manusia"""
        print('Saya baru saja makan', s, 'sambil belajar')
        self.keadaan = 'kenyang'

# 4
listKuliah = []
def ambilKuliah(self, kuliah):
    self.listKuliah.append(kuliah)

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
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\MODUL_2\4.py =====
>>> m3 = Mahasiswa('Sri', 676, 'Yogyakarta', 240000)
>>> m3.listKuliah
[]
>>> m3.ambilKuliah('Informatika')
>>> m3.ambilKuliah('Farmasi')
>>> m3.listKuliah
['Informatika', 'Farmasi']
>>> |
```

#### 5. Soal nomor 5

```
5.py - D:\MODUL_2\5.py (3.8.2)
File Edit Format Run Options Window Help

class Mahasiswa(Manusia):
    """Class Mahasiswa yg dibangun dari class Manusia"""
    def __init__(self, nama, NIM, kota, us):
        """Metode ini menutupi inisiasi dari 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):
        """Method ini menutupi method di Manusia"""
        print('Saya baru saja makan', s, 'sambil belajar')
        self.keadaan = 'kenyang'

# 4
listKuliah = []
def ambilKuliah(self, kuliah):
    self.listKuliah.append(kuliah)

# 5
def hapusKuliah(self, item):
    self.listKuliah.remove(item)

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
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\MODUL_2\5.py =====
>>> m3 = Mahasiswa('Sri', 676, 'Yogyakarta', 240000)
>>> m3.listKuliah
[]
>>> m3.ambilKuliah('Basis Data')
>>> m3.ambilKuliah('Algoritma')
>>> m3.listKuliah
['Basis Data', 'Algoritma']
>>> m3.hapusKuliah('Algoritma')
>>> m3.listKuliah
['Basis Data']
>>> |
```

## 6. Soal nomor 6

```
6.py - D:\MODUL_2\6.py (3.8.2)
File Edit Format Run Options Window Help

print('saya baru makan', s)
print('saya baru saja latihan', k)

def makan(self, s):
    print('saya baru makan', s)
    self.keadaan = 'kenyang'

def olahraga(self, k):
    print('saya baru saja latihan', k)
    self.keadaan = 'lapar'

def mengaliDua(self, n):
    return n * 2

# 6
class SiswaSMA(Manusia):

    def __init__(self, nama, Nip, kelas, alamat):
        self.nama = nama
        self.no = Nip
        self.kelas = kelas
        self.alamat = alamat

    def __str__(self):
        a = "Nama : " + self.nama + '\n' + \
            "No Induk : " + str(self.no) + '\n' + \
            "Kelas : " + str(self.kelas) + '\n' + \
            "Tinggal di : " + self.alamat + '\n'
        print(a)

    def ambilNama(self):
        print(self.nama)

    def ambilNip(self):
        print(self.no)

    def ambilKelas(self):
        print(self.kelas)

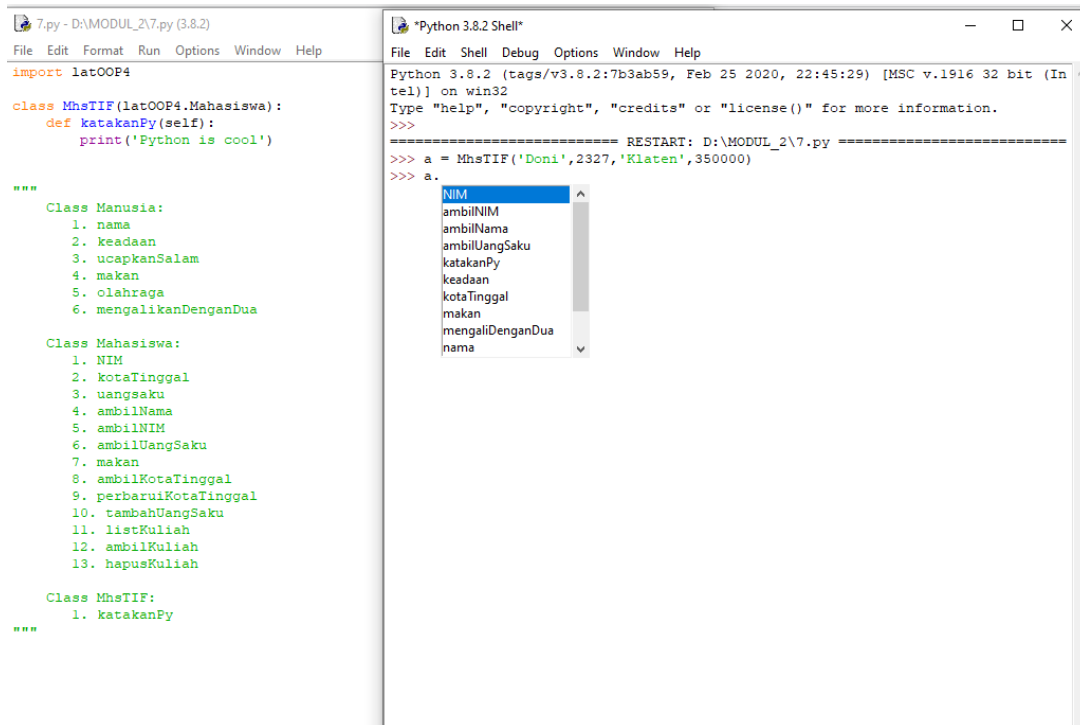
    def ambilAlamat(self):
        print(self.alamat)
```

```
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
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\MODUL_2\6.py =====
>>> s = SiswaSMA('Jojo', 123, 10, 'Surabaya')
>>>
>>> print(s)
Nama : Jojo
No Induk : 123
Kelas : 10
Tinggal di : Surabaya
>>>
```



## 7. Soal nomor 7



The image shows a Python IDE with two windows. The left window, titled '7.py - D:\MODUL\_2\7.py (3.8.2)', contains the following code:

```
import latOOP4

class MhsTIF(latOOP4.Mahasiswa):
    def katakanPy(self):
        print('Python is cool')

"""
Class Manusia:
1. nama
2. keadaan
3. ucapkanSalam
4. makan
5. olahraga
6. mengalikanDenganDua

Class Mahasiswa:
1. NIM
2. kotaTinggal
3. uangsaku
4. ambilNama
5. ambilNIM
6. ambilUangSaku
7. makan
8. ambilKotaTinggal
9. perbaruiKotaTinggal
10. tambahUangSaku
11. listKuliah
12. ambilKuliah
13. hapusKuliah

Class MhsTIF:
1. katakanPy
"""
```

The right window, titled 'Python 3.8.2 Shell', shows the execution of the code:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\MODUL_2\7.py =====
>>> a = MhsTIF('Doni', 2327, 'Klaten', 350000)
>>> a.
```

A dropdown menu is visible, showing the following attributes of the object 'a':

- NIM
- ambilNIM
- ambilNama
- ambilUangSaku
- katakanPy
- keadaan
- kotaTinggal
- makan
- mengaliDenganDua
- nama