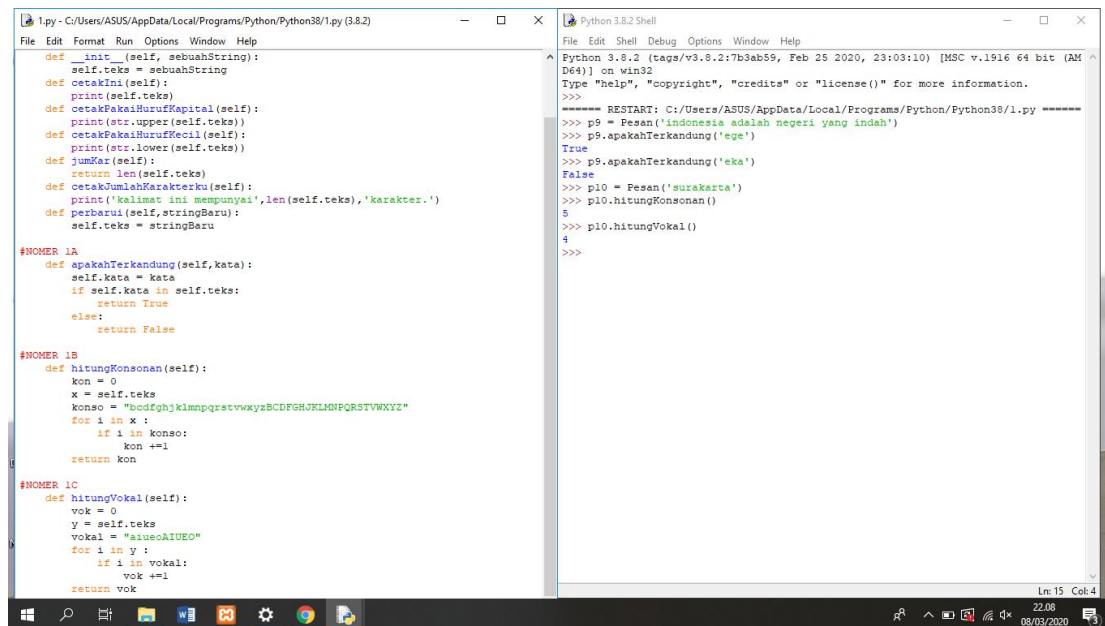


NAMA : ELSA PUTRI ALIYYA
NIM : L200180108
KELAS : D

MODUL 2

1.



```
1.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python38/1.py (3.8.2)
File Edit Format Run Options Window Help
def __init__(self, sebuahString):
    self.teks = sebuahString
def cetakIni(self):
    print(self.teks)
def cetakFakaiHurufKapital(self):
    print(str.upper(self.teks))
def cetakFakaiHurufKecil(self):
    print(str.lower(self.teks))
def jumKar(self):
    return len(self.teks)
def cetakJumlahKarakterku(self):
    print('kalimat ini mempunyai', len(self.teks), 'karakter.')
def perbarui(self, stringBaru):
    self.teks = stringBaru

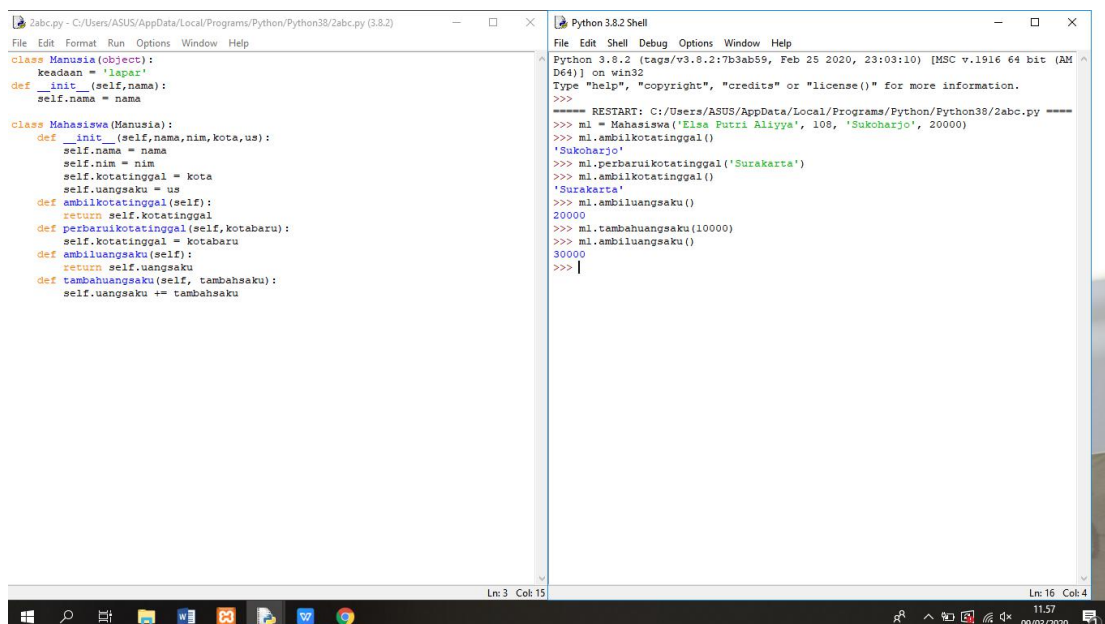
#NOMER 1A
def apakahTerkandung(self, kata):
    self.kata = kata
    if self.kata in self.teks:
        return True
    else:
        return False

#NOMER 1B
def hitungKonsonan(self):
    kon = 0
    x = self.teks
    konso = "bcdfghjklmnpqrstvwxyzBCDFGHJKLMNPQRSTVWXYZ"
    for i in x:
        if i in konso:
            kon += 1
    return kon

#NOMER 1C
def hitungVokal(self):
    vok = 0
    y = self.teks
    vokal = "aiueoAIUEO"
    for i in y:
        if i in vokal:
            vok += 1
    return vok

Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python38/1.py =====
>>> p9 = Pesan('Indonesia adalah negeri yang indah')
>>> p9.apakahTerkandung('ege')
True
>>> p9.apakahTerkandung('eka')
False
>>> p10 = Pesan('surakarta')
>>> p10.hitungKonsonan()
5
>>> p10.hitungVokal()
4
>>>
```

2.



```
2abc.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python38/2abc.py (3.8.2)
File Edit Format Run Options Window Help
class Manusia(object):
    keadaan = 'lapar'
def __init__(self, nama):
    self.nama = nama

class Mahasiswa(Manusia):
    def __init__(self, nama, nim, kota, us):
        self.nama = nama
        self.nim = nim
        self.kotatanggal = kota
        self.uangseku = us
    def ambilkotatanggal(self):
        return self.kotatanggal
    def perbaruiKotatanggal(self, kotabaru):
        self.kotatanggal = kotabaru
    def ambiliuangseku(self):
        return self.uangseku
    def tambahuangseku(self, tambahseku):
        self.uangseku += tambahseku

Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python38/2abc.py =====
>>> m1 = Mahasiswa('Elsa Putri Aliyya', 108, 'Sukoharjo', 20000)
>>> m1.ambilkotatanggal()
'Sukoharjo'
>>> m1.perbaruiKotatanggal('Surakarta')
>>> m1.ambilkotatanggal()
'Surakarta'
>>> m1.ambiliuangseku()
20000
>>> m1.tambahuangseku(10000)
>>> m1.ambiliuangseku()
30000
>>> |
```

3.

```

3.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python38/3.py (3.8.2)
File Edit Format Run Options Window Help

class Manusia(object):
    readaan = 'lapar'
    def __init__(self, nama):
        self.nama = nama

class Mahasiswa(Manusia):
    def __init__(self, nama, nim, kota, us):
        self.nama = nama
        self.nim = nim
        self.kotatinggal = kota
        self.uangsakuku = us
    def __str__(self):
        s = 'Nama ' + self.nama + ', NIM ' + (self.nim)\
            + ', aku tinggal di kota ' + self.kotatinggal\
            + ', uang sakuku sehari Rp.' + str(self.uangsakuku)
        return s
    def ambilNama(self):
        return self.nama
    def ambilNim(self):
        return self.nim
    def ambilkotatinggal(self):
        return self.kotatinggal
    def perbarukotatinggal(self, kotabaru):
        self.kotatinggal = kotabaru
    def ambiluangsaku(self):
        return self.uangsakuku
    def tambahuangsakuku(self, tambahsakuku):
        self.uangsakuku += tambahsakuku

a = input("Nama : ")
b = input("Nim : ")
c = input("Kota tinggal : ")
d = input("Uang sakuku : ")
mhs = Mahasiswa(a, b, c, d)
print(mhs)

```

Python 3.8.2 Shell

```

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python38/3.py =====
Nama : Elsa Putri Aliyya
Nim : 108
Kota tinggal : Sukoharjo
Uang sakuku : 20000
Nama Elsa Putri Aliyya, NIM 108, aku tinggal di kota Sukoharjo, uang sakuku sehari Rp.20000
>>>

```

4.

```

4.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python38/4.py (3.8.2)
File Edit Format Run Options Window Help

class Manusia(object):
    readaan = 'lapar'
    def __init__(self, nama):
        self.nama = nama

class Mahasiswa(Manusia):
    def __init__(self, nama, nim, kota, us, listkul = []):
        self.nama = nama
        self.nim = nim
        self.kotatinggal = kota
        self.uangsakuku = us
        self.listkuliah = listkul
    def __str__(self):
        s = 'Nama ' + self.nama + ', NIM ' + (self.nim)\
            + ', aku tinggal di kota ' + self.kotatinggal\
            + ', uang sakuku sehari Rp.' + str(self.uangsakuku)
        return s
    def ambilNama(self):
        return self.nama
    def ambilNim(self):
        return self.nim
    def ambilkotatinggal(self):
        return self.kotatinggal
    def perbarukotatinggal(self, kotabaru):
        self.kotatinggal = kotabaru
    def ambiluangsaku(self):
        return self.uangsakuku
    def tambahuangsakuku(self, tambahsakuku):
        self.uangsakuku += tambahsakuku
    def ambilkuliah(self, ambil):
        self.listkuliah.append(ambil)

```

Python 3.8.2 Shell

```

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python38/4.py =====
>>> al = Mahasiswa('Elsa Putri Aliyya', 108, 'Sukoharjo', 20000)
>>> al.listkuliah
[]
>>> al.ambilkuliah('Matematika Diskret')
>>> al.listkuliah
['Matematika Diskret']
>>> al.ambilkuliah('Algoritma Struktur Data')
>>> al.listkuliah
['Matematika Diskret', 'Algoritma Struktur Data']
>>>

```

5.

```

class Manusia(object):
    readline = 'lapar'
    def __init__(self, nama):
        self.nama = nama

class Mahasiswa(Manusia):
    def __init__(self, nama, nim, kota, us, lisul = []):
        self.nama = nama
        self.nim = nim
        self.kotatinggal = kota
        self.uangsaku = us
        self.lisul = lisul
    def __str__(self):
        s = 'Nama ' + self.nama + ', NIM ' + (self.nim)\
            + ', aku tinggal di kota ' + self.kotatinggal\
            + ', uang saku ku sehari Rp.' + str(self.uangsaku)
        return s
    def ambilNama(self):
        return self.nama
    def ambilNim(self):
        return self.nim
    def ambilkotatinggal(self):
        return self.kotatinggal
    def perbarukotatinggal(self, kotabaru):
        self.kotatinggal = kotabaru
    def ambiluangsaku(self):
        return self.uangsaku
    def tambahuangaku(self, tambahaaku):
        self.uangsaku += tambahaaku
    def ambilkuliah(self, ambil):
        self.lisul.append(ambil)
    def hapusmatakuliah(self, hapus):
        self.lisul.remove(hapus)

```

```

Python 3.8.2 Shell
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python38/4.py =====
>>> al = Mahasiswa('Elsa Putri Aliyya', 108, 'Sukoharjo', 20000)
>>> al.lisul
[]
>>> al.ambilkuliah('Matematika Diskret')
>>> al.lisul
['Matematika Diskret']
>>> al.ambilkuliah('Algoritma Struktur Data')
>>> al.lisul
['Matematika Diskret', 'Algoritma Struktur Data']
===== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python38/5.py =====
>>> al = Mahasiswa('Elsa Putri Aliyya', 108, 'Sukoharjo', 20000)
>>> al.lisul
[]
>>> al.ambilkuliah('Matematika Diskret')
>>> al.lisul
['Matematika Diskret']
>>> al.ambilkuliah('Algoritma Struktur Data')
>>> al.lisul
['Matematika Diskret', 'Algoritma Struktur Data']
>>> al.hapusmatakuliah('Matematika Diskret')
>>> al.lisul
['Algoritma Struktur Data']
>>>

```

6.

```

from datetime import date

class Manusia(object):
    readline = 'lapar'
    def __init__(self, nama, NIS, usia, us):
        self.nama = nama
        self.nis = NIS
        self.usia = usia
        self.us = us
    def __str__(self):
        s = 'Nama ' + self.nama + ', NIM ' + (self.nim)\
            + ', aku tinggal di kota ' + self.kotatinggal\
            + ', uang saku ku sehari Rp.' + str(self.uangsaku)
        return s
    def tahunlahir(self):
        thnini = date.today().year
        thnlahir = thnini - self.usia
        return thnlahir

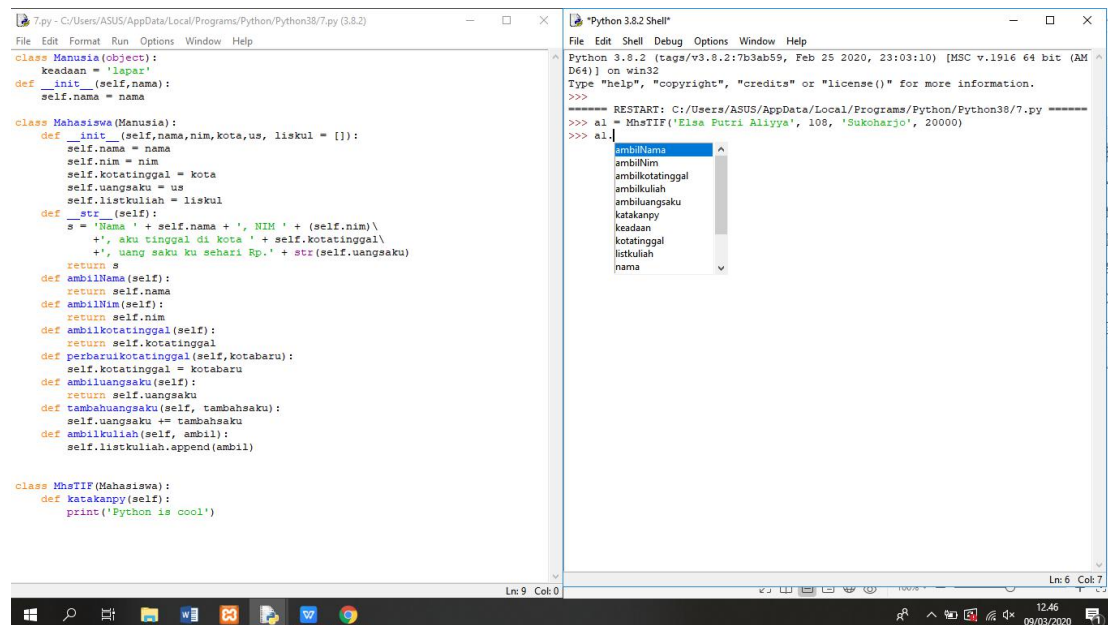
```

```

Python 3.8.2 Shell
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python38/6.py =====
>>> al = Manusia('Elsa Putri Aliyya', 108, 20, 20000)
>>> al.tahunlahir()
2000
>>>

```

7.



The screenshot shows a Python 3.8.2 IDE with two windows. The left window, titled '7.py - C:/Users/ASUS/AppData/Local/Programs/Python/Python38/7.py (3.8.2)', contains the following code:

```
class Manusia(object):
    keadaan = 'lapis'
    def __init__(self, nama):
        self.nama = nama

class Mahasiswa(Manusia):
    def __init__(self, nama, nim, kota, us, lisul = []):
        self.nama = nama
        self.nim = nim
        self.kotatanggal = kota
        self.uangsaku = us
        self.lisuliah = lisul
    def __str__(self):
        s = 'Nama ' + self.nama + ', NIM ' + (self.nim)\
            + ', aku tinggal di kota ' + self.kotatanggal\
            + ', uang saku ku sehari Rp.' + str(self.uangsaku)
        return s
    def ambilNama(self):
        return self.nama
    def ambilNim(self):
        return self.nim
    def ambilkotatanggal(self):
        return self.kotatanggal
    def perbarukotatanggal(self, kotabaru):
        self.kotatanggal = kotabaru
    def ambiluangaku(self):
        return self.uangsaku
    def tambahuangaku(self, tambahaaku):
        self.uangsaku += tambahaaku
    def ambilkuliah(self, ambil):
        self.lisuliah.append(ambil)

class MhsTIF(Mahasiswa):
    def katakanpy(self):
        print('Python is cool')
```

The right window, titled 'Python 3.8.2 Shell', shows the interactive prompt. It displays the restart message and the execution of the following commands:

```
>>> a1 = MhsTIF('Elsa Putri Aliyya', 108, 'Sukoharjo', 20000)
>>> a1.ambilNama()
'Elsa Putri Aliyya'
```

The shell also shows a list of methods available for the object 'a1':

- ambilNama
- ambilNim
- ambilkotatanggal
- ambilkuliah
- ambiluangaku
- katapanpy
- keadaan
- kotatanggal
- lisuliah
- nama

Metode atau state muncul berasal dari semua class baik Manusia, Mahasiswa, atau MhsTIF.