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Kelas : E

Latihan :

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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/mod4.1.py
Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.1.py", line 1, in <module>
    if target in arrayTempatYangDicari:
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===== RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.1.py
>>> A = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> carilurus(A,31)
True
>>> carilurus(A,8)
False
>>>
```

```
*mod4.1.py - C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.1.py (3.7.7rc1)
File Edit Format Run Options Window Help
def carilurus(wadah, target):
    n = len(wadah)
    for i in range(n):
        if wadah[i] == target:
            return True
    return False
```

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Python 3.7.7rc1 Shell
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Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py", line 1, in <module>
    c0 = MhsTIF("Ika",10,"Sukoharjo",240000)
NameError: name 'MhsTIF' is not defined
>>>
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  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py", line 44, in <module>
    c0 = MhsTIF("Ika",10,"Sukoharjo",240000)
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Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py", line 61, in <module>
    for i in Data:
NameError: name 'Data' is not defined
>>>
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Denitinggal diKlaten
Jantotinggal diKlaten
>>>
```

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mod4.2.py - C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py (3.7.7rc1)
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 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(n):
        return n*2
class MhsTIF(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.")
```

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Python 3.7.7rc1 Shell
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>>> A = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> cariLurus(A,31)
True
>>> cariLurus(A,8)
False
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NameError: name 'MhsTIF' is not defined
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Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py", line 44, in <module>
    c0 = MhsTIF("Ika",10,"Sukoharjo",240000)
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Dentinggal diKlaten
Jantotinggal diKlaten
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mod4.2.py - C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py (3.7.7rc1)
File Edit Format Run Options Window Help

class MhsTIF(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.")

c0 = MhsTIF("Ika",10,"Sukoharjo",240000)
c1 = MhsTIF("Budi",51,"Sragen",230000)
c2 = MhsTIF("Ahmad",2,"Surakarta",250000)
c3 = MhsTIF("Chandra",18,"Surakarta",235000)
c4 = MhsTIF("Eka",4,"Boyolali",240000)
c5 = MhsTIF("Fandi",31,"Salatiga",250000)
c6 = MhsTIF("Deni",13,"Klaten",245000)
c7 = MhsTIF("Galuh",5,"Wonogiri",245000)
c8 = MhsTIF("Janto",23,"Klaten",245000)
c9 = MhsTIF("Hasan",64,"Karanganyar",270000)
c10 = MhsTIF("Khalid",29,"Purwodadi",265000)
```

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Python 3.7.7rc1 Shell
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>>> A = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> cariLurus(A,31)
True
>>> cariLurus(A,8)
False
>>>

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Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py", line 1, in <module>
    c0 = MhsTIF("Ika",10,"Sukoharjo",240000)
NameError: name 'MhsTIF' is not defined
>>>

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Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py", line 44, in <module>
    c0 = MhsTIF("Ika",10,"Sukoharjo",240000)
NameError: name 'MhsTIF' is not defined
>>>

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Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py", line 61, in <module>
    for i in Data :
NameError: name 'Data' is not defined
>>>

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Dentinggal diKlaten
Jantotinggal diKlaten
>>>

mod4.2.py - C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py (3.7.7rc1)
File Edit Format Run Options Window Help

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.")

c0 = MhsTIF("Ika",10,"Sukoharjo",240000)
c1 = MhsTIF("Budi",51,"Sragen",230000)
c2 = MhsTIF("Ahmad",2,"Surakarta",250000)
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c10 = MhsTIF("Khalid",29,"Purwodadi",265000)

##Lalu kita membuat daftar mahasiswa dalam bentuk list seperti :
Daftar = [c0,c1,c2,c3,c4,c5,c6,c7,c8,c9,c10]

target = "Klaten"
for i in Daftar :
    if i.kotaTinggal == target :
        print(i.nama + "tinggal di" + target)
```

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Python 3.7.7rc1 Shell
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===== RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/Python37\Python.exe
Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.1.py", line 1, in
    if target in arrayTempatYangDicerai :
NameError: name 'target' is not defined
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>>> A = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> cariLurus(A,31)
True
>>> cariLurus(A,0)
False
>>>

===== RESTART: C:/Users/acer/AppData/Local/Programs/Python/Python37/Python.exe
Traceback (most recent call last):
  File "C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.2.py", line 1, in
    c0 = MnsTIF("Ika",10,"Sukoharjo",240000)
NameError: name 'MnsTIF' is not defined
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>>>
```

```
mod4.4.py - C:/Users/acer/AppData/Local/Programs/Python/Python37/mod4.4.py (3.7.7rc1)
File Edit Format Run Options Window Help
def binde(kumpulan, target):
    # Mulai dari seluruh runtutan elemen
    low = 0
    high = len(kumpulan) - 1

    # secara berulang belah runtutan itu menjadi separuhnya
    # sampai tergetnya ditemukan
    while low <= high:
        # Temukan pertengahan runtut target?
        mid = (high + low) // 2
        # Apakah pertengahannya memuat target?
        if kumpulan[mid] == target:
            return True
        # ataukah targetnya disebelah kiranya?
        elif target < kumpulan[mid]:
            high = mid - 1
        # ataukah targetnya di sebelah kanannya?
        else:
            low = mid + 1
    # jika runtutnya tidak bisa dibelah lagi, berarti targetnya tidak ada
    return False
```