

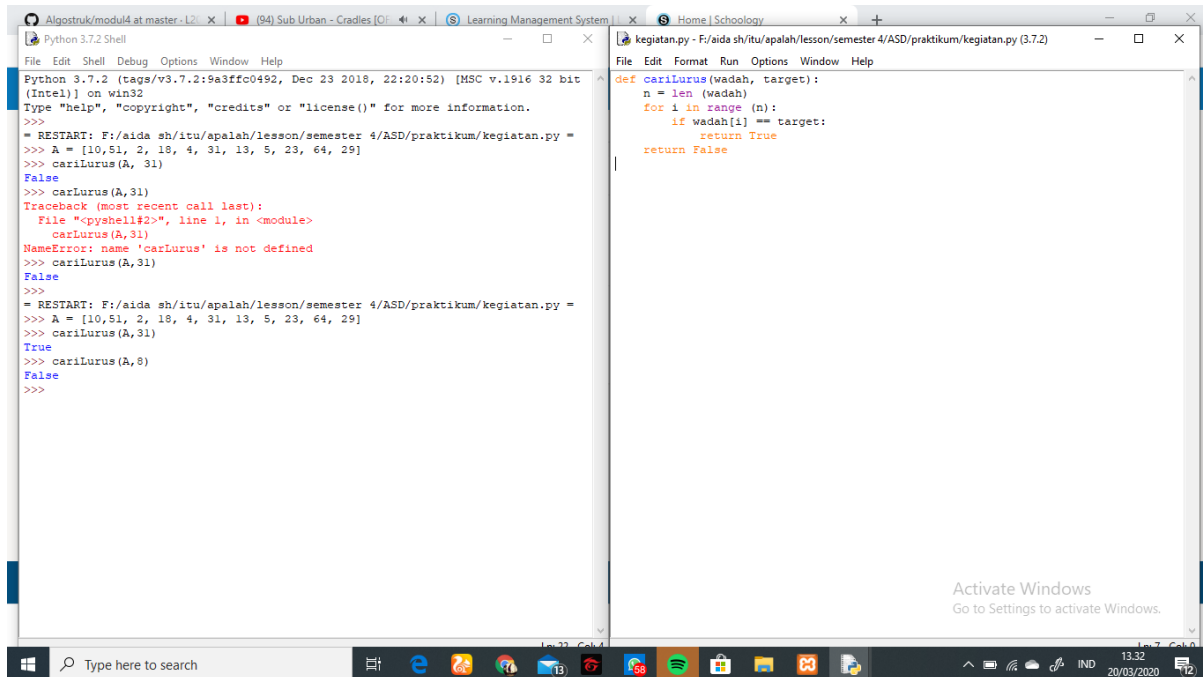
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NIM : L200180059

Kelas : C

MODUL 4

Kegiatan dan latihan

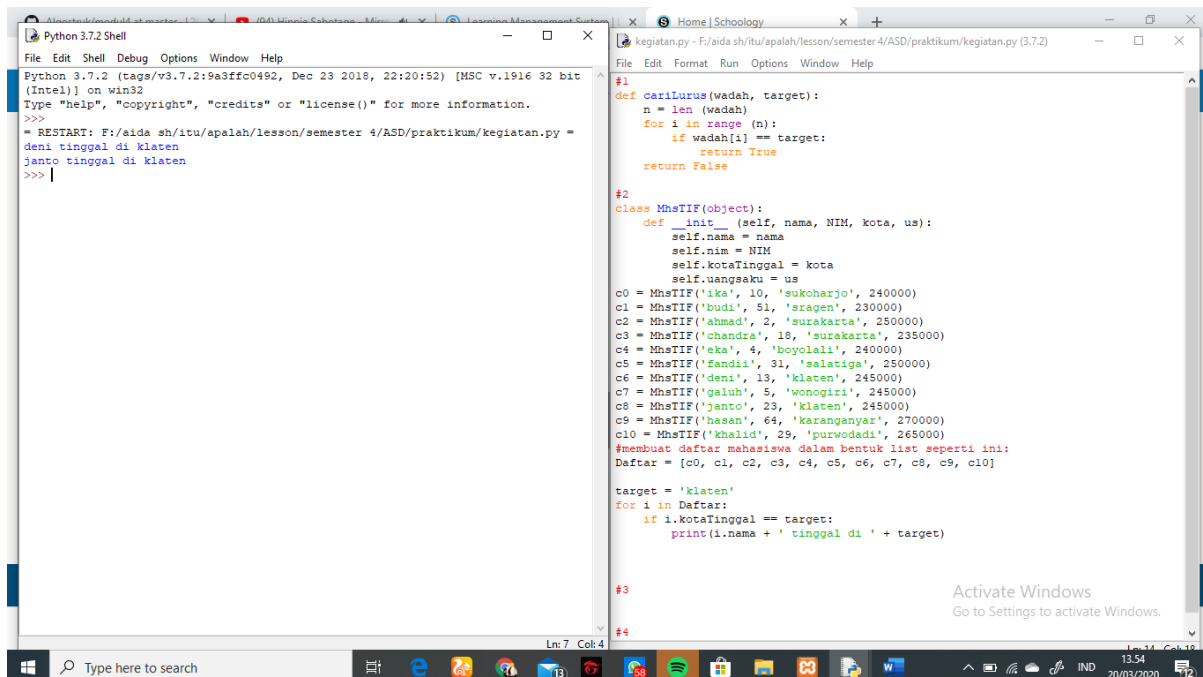


The screenshot shows a Python 3.7.2 Shell window on the left and a text editor window on the right. The shell window displays the following code and output:

```
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: F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/kegiatan.py =
>>> A = [10,51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> cariLurus(A, 31)
False
>>> cariLurus(A, 31)
Traceback (most recent call last):
  File "<pyshell#2>", line 1, in <module>
    cariLurus(A, 31)
NameError: name 'cariLurus' is not defined
>>> cariLurus(A, 31)
False
>>>
= RESTART: F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/kegiatan.py =
>>> A = [10,51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> cariLurus(A, 31)
True
>>> cariLurus(A, 8)
False
>>>
```

The text editor window shows the following code:

```
kegiatan.py - F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/kegiatan.py (3.7.2)
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
```



The screenshot shows a Python 3.7.2 Shell window on the left and a text editor window on the right. The shell window displays the following code and output:

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Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/kegiatan.py =
>>> deni tinggal di Klaten
janto tinggal di Klaten
>>>
```

The text editor window shows the following code:

```
kegiatan.py - F:/aida sh/itu/apalah/lesson/semester 4/ASD/praktikum/kegiatan.py (3.7.2)
File Edit Format Run Options Window Help
#1
def cariLurus(wadah, target):
    n = len(wadah)
    for i in range(n):
        if wadah[i] == target:
            return True
    return False

#2
class MhsTIF(object):
    def __init__(self, nama, NIM, kota, us):
        self.nama = nama
        self.nim = NIM
        self.kotaTinggal = kota
        self.uangSaku = us

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)

#membuat daftar mahasiswa dalam bentuk list seperti ini:
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)

#3
#4
```

```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
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Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: F:\aida sh\itu\apalah\lesson\semester 4\ASD/praktikum/kegiatan.py =
deni tinggal di klaten
janto tinggal di klaten
>>> A = [5,2]
>>> cariTerkecil(A)
2
>>> |

kegiatan.py - F:\aida sh\itu\apalah\lesson\semester 4\ASD/praktikum/kegiatan.py (3.7.2)
File Edit Format Run Options Window Help
class MhsTIF(object):
    def __init__(self, nama, NIM, kota, us):
        self.nama = nama
        self.nim = NIM
        self.kotaTinggal = kota
        self.uangaku = us

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)
#membuat daftar mahasiswa dalam bentuk list seperti ini:
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)

#3
def cariTerkecil(kumpulan):
    n = len(kumpulan)
    #anggap item pertama yang terkecil
    terkecil = kumpulan[0]
    #tentukan apakah item lain lebih kecil
    for i in range(1,n):
        if kumpulan[i] < terkecil:
            terkecil = kumpulan[i]
    return terkecil

#4
```

```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
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>>>
= RESTART: F:\aida sh\itu\apalah\lesson\semester 4\ASD/praktikum/kegiatan.py =
deni tinggal di klaten
janto tinggal di klaten
>>> A = [5,2]
>>> cariTerkecil(A)
2
>>>
= RESTART: F:\aida sh\itu\apalah\lesson\semester 4\ASD/praktikum/kegiatan.py =
deni tinggal di klaten
janto tinggal di klaten
>>> A = [10, 20, 30, 40, 50]
>>> binSe(A,30)
True
>>> binSe(A, 20)
True
>>> |

kegiatan.py - F:\aida sh\itu\apalah\lesson\semester 4\ASD/praktikum/kegiatan.py (3.7.2)
File Edit Format Run Options Window Help
#membuat daftar mahasiswa dalam bentuk list seperti ini:
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)

#3
#def cariTerkecil(kumpulan):
## n = len(kumpulan)
## #anggap item pertama yang terkecil
## terkecil = kumpulan[0]
## #tentukan apakah item lain lebih kecil
## for i in range(1,n):
##     if kumpulan[i] < terkecil:
##         terkecil = kumpulan[i]
## return terkecil

#4
def binSe(kumpulan, target):
    #mulai dari seluruh runtutan elemen
    low = 0
    high = len(kumpulan)-1

    #secara berulang belah runtutan itu menjadi separuhnya
    #sampai targetnya ditemukan
    while low <= high:
        #tentukan pertengahan runtut itu
        mid = (high + low) // 2
        #apakah pertengahannya memuat target
        if kumpulan[mid] == target:
            return True
        #atauakah targetnya di sebelah kirinya
        elif target < kumpulan[mid]:
            high = mid - 1
        #atauakah targetnya di sebelah kanannya
        else:
            low = mid + 1
```