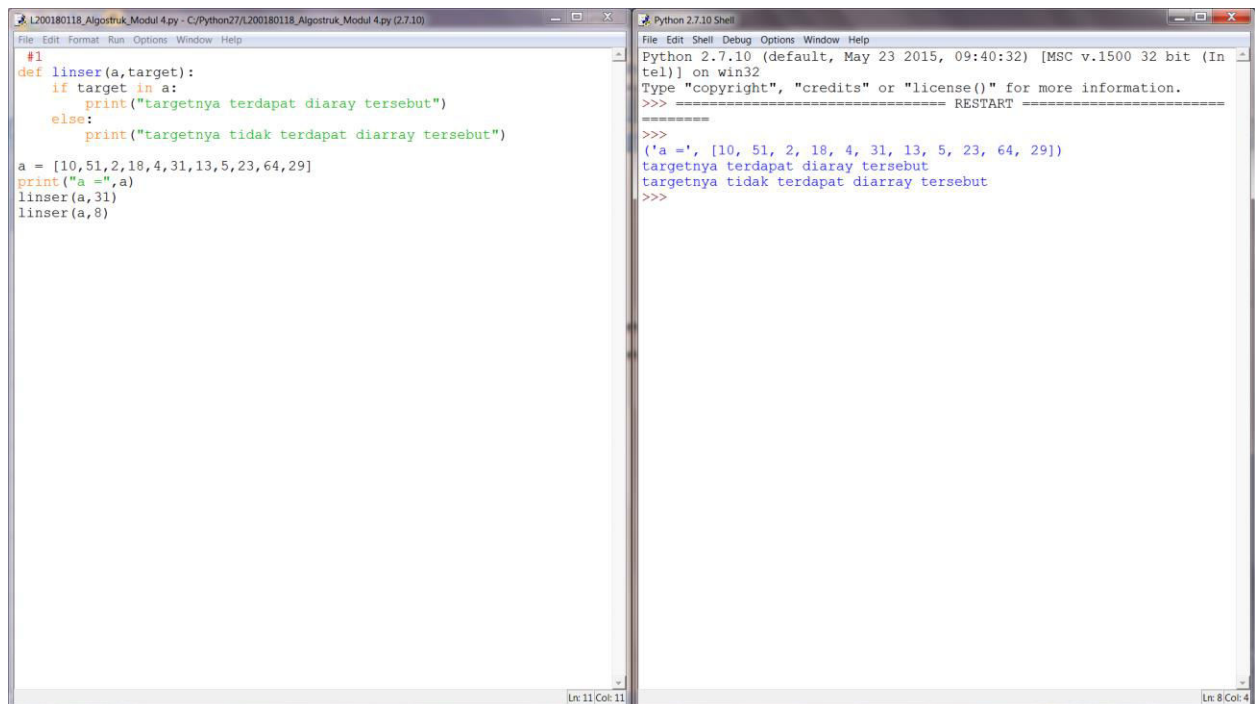


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## Latihan

### Modul 4.

#### Nomer 1.



The image shows a screenshot of a Python IDE with two windows. The left window, titled 'L200180118\_Algostruk\_Modul 4.py - C:/Python27/L200180118\_Algostruk\_Modul 4.py (2.7.10)', contains the following Python code:

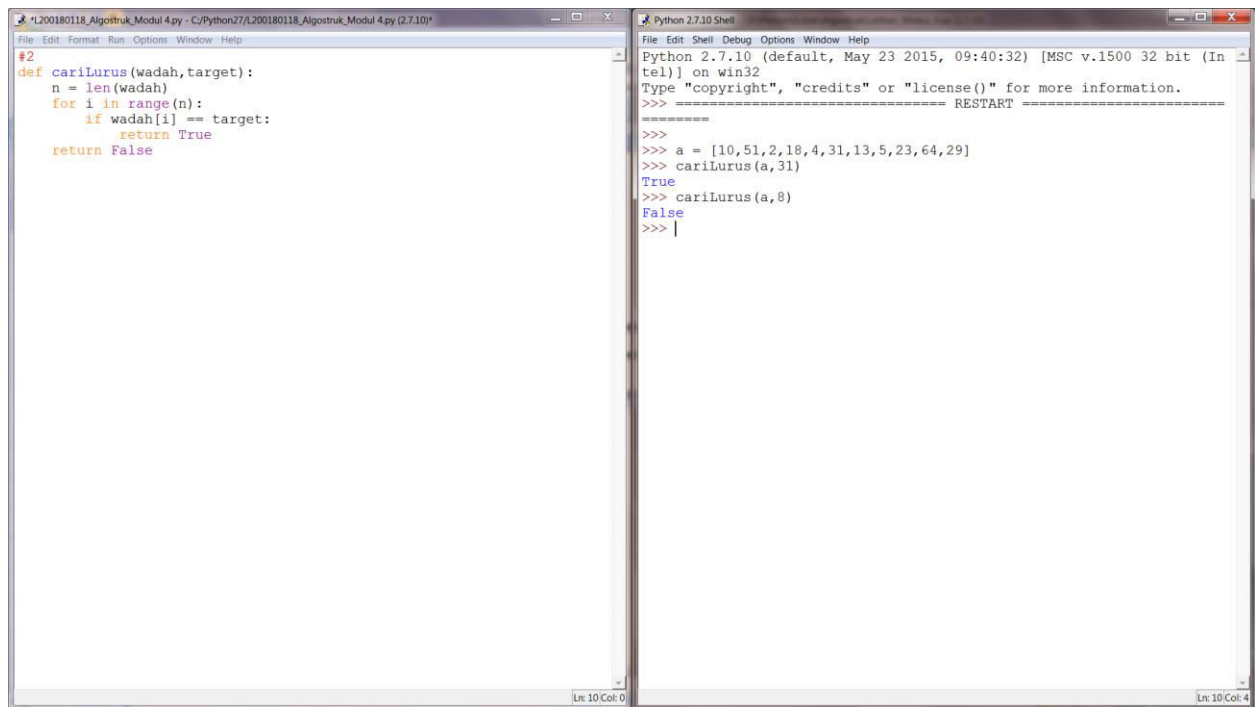
```
#1
def linser(a,target):
    if target in a:
        print("targetnya terdapat diarray tersebut")
    else:
        print("targetnya tidak terdapat diarray tersebut")

a = [10,51,2,18,4,31,13,5,23,64,29]
print("a =",a)
linser(a,31)
linser(a,8)
```

The right window, titled 'Python 2.7.10 Shell', shows the output of the script:

```
Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
('a =', [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29])
targetnya terdapat diarray tersebut
targetnya tidak terdapat diarray tersebut
>>>
```

## Nomer 2.

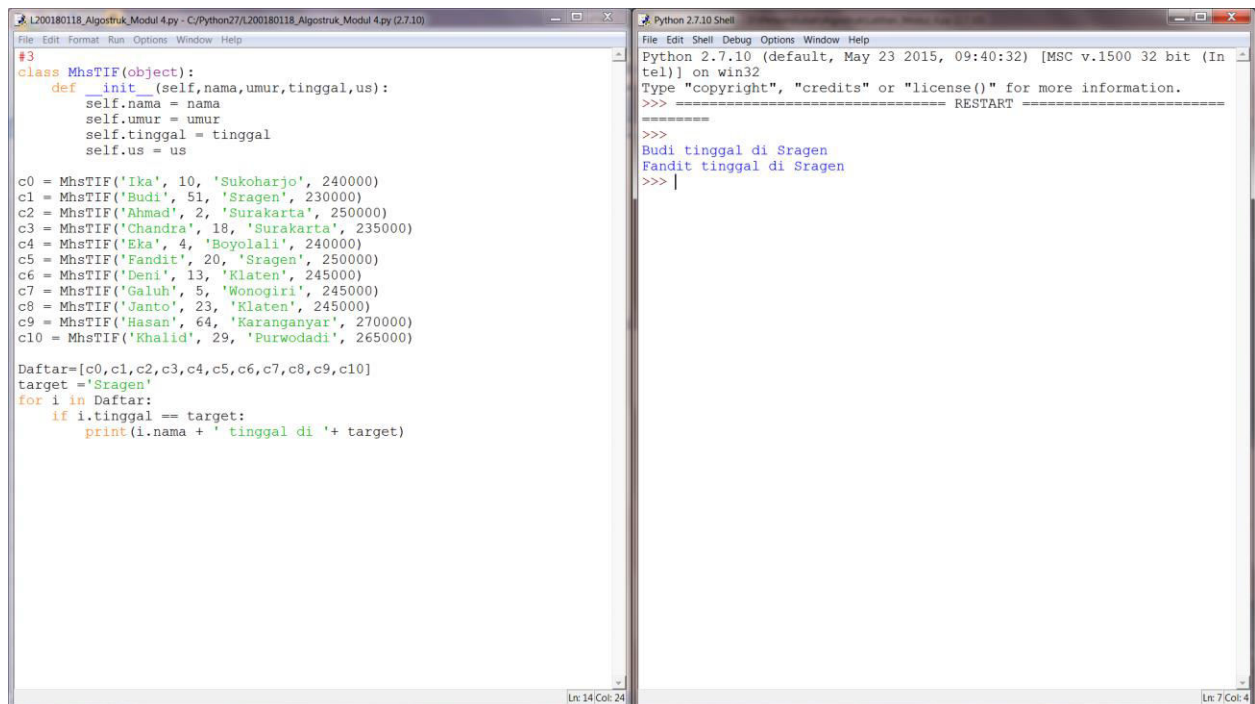


The screenshot shows a Python IDE with two windows. The left window is a text editor titled 'L200180118\_Algostruk\_Modul 4.py' containing a function definition. The right window is a 'Python 2.7.10 Shell' showing the execution of the function.

```
#2
def cariLurus(wadah,target):
    n = len(wadah)
    for i in range(n):
        if wadah[i] == target:
            return True
    return False
```

Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC v.1500 32 bit (Intel)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>> ===== RESTART =====  
>>>  
>>> a = [10,51,2,18,4,31,13,5,23,64,29]  
>>> cariLurus(a,31)  
True  
>>> cariLurus(a,8)  
False  
>>> |

## Nomer 3.



The screenshot shows a Python IDE with two windows. The left window is a text editor titled 'L200180118\_Algostruk\_Modul 4.py' containing a class definition and its usage. The right window is a 'Python 2.7.10 Shell' showing the execution of the class.

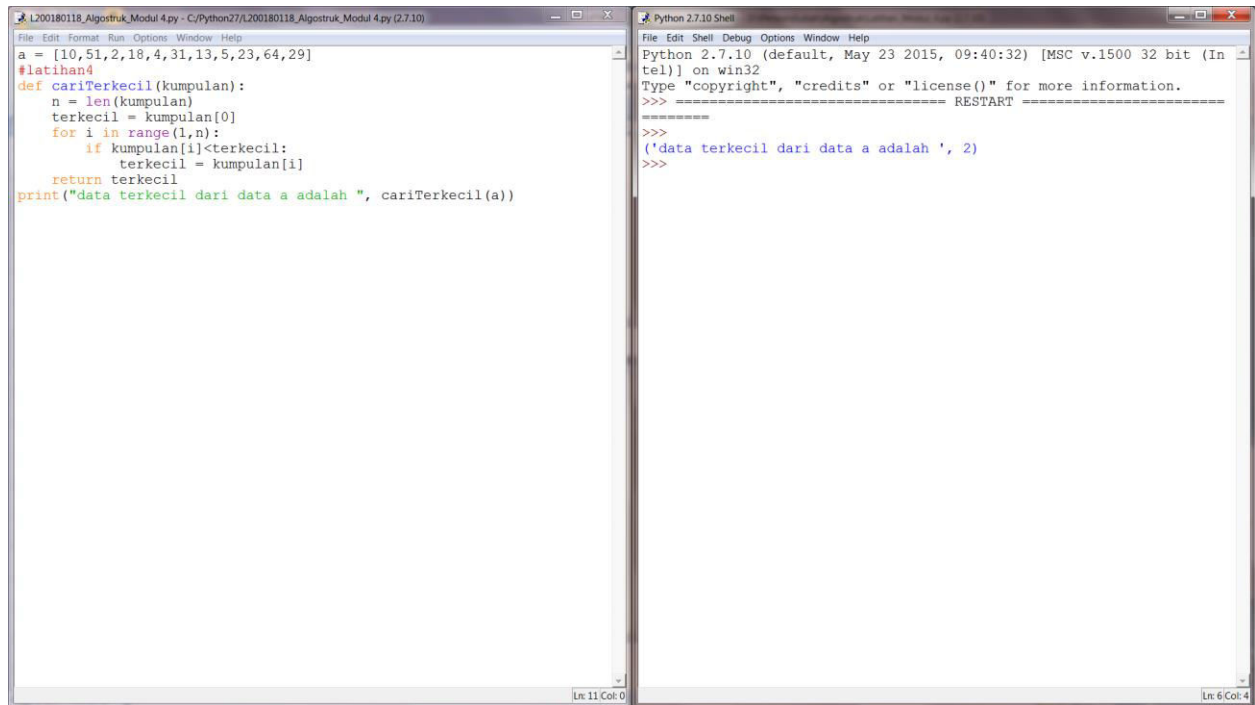
```
#3
class MhsTIF(object):
    def __init__(self,nama,umur,tinggal,us):
        self.nama = nama
        self.umur = umur
        self.tinggal = tinggal
        self.us = us

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('Fandit', 20, 'Sragen', 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)

Daftar=[c0,c1,c2,c3,c4,c5,c6,c7,c8,c9,c10]
target = 'Sragen'
for i in Daftar:
    if i.tinggal == target:
        print(i.nama + ' tinggal di ' + target)
```

Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC v.1500 32 bit (Intel)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>> ===== RESTART =====  
>>>  
>>> Budi tinggal di Sragen  
>>> Fandit tinggal di Sragen  
>>> |

#### Nomer 4.



The image shows a screenshot of a Python IDE with two windows. The left window, titled 'L200180118\_Algostruk\_Modul 4.py - C:/Python27/L200180118\_Algostruk\_Modul 4.py (2.7.10)', contains the following Python code:

```
File Edit Format Run Options Window Help
a = [10,51,2,18,4,31,13,5,23,64,29]
#latihan4
def cariTerkecil(kumpulan):
    n = len(kumpulan)
    terkecil = kumpulan[0]
    for i in range(1,n):
        if kumpulan[i]<terkecil:
            terkecil = kumpulan[i]
    return terkecil
print("data terkecil dari data a adalah ", cariTerkecil(a))
```

The right window, titled 'Python 2.7.10 Shell', shows the execution output:

```
File Edit Shell Debug Options Window Help
Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
>>> ('data terkecil dari data a adalah ', 2)
>>>
```

The status bars at the bottom of the windows indicate 'Ln: 11 Col: 0' for the left window and 'Ln: 6 Col: 4' for the right window.