

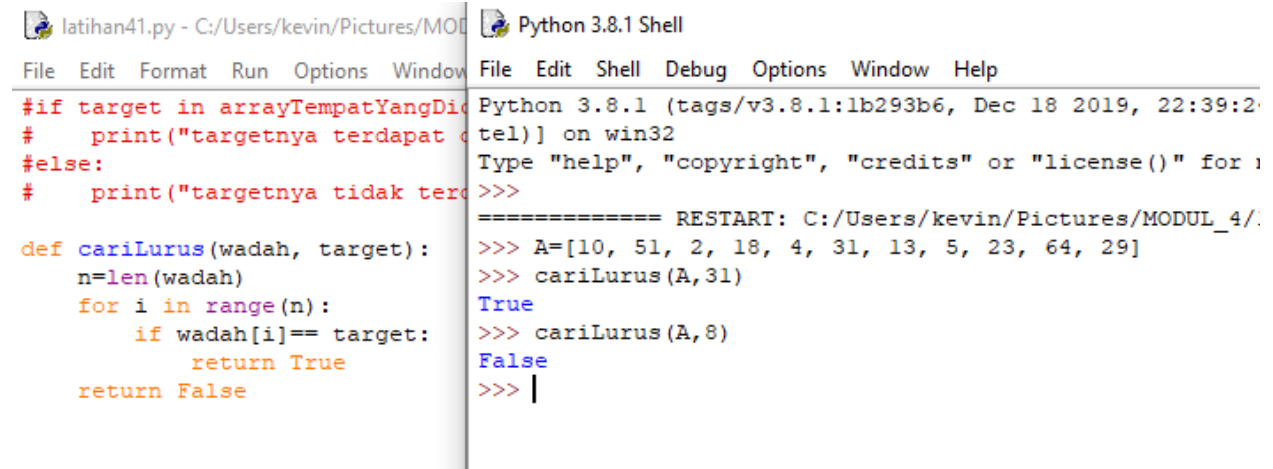
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Kelas : A

LATIHAN PRAKTIKUM ALGORITMA STRUKTUR DATA

Latihan 4.1



```
latihan41.py - C:/Users/kevin/Pictures/MODUL_4/Python 3.8.1 Shell
File Edit Format Run Options Window File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:20) on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: C:/Users/kevin/Pictures/MODUL_4/Python 3.8.1 Shell
>>> A=[10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> cariLurus(A,31)
True
>>> cariLurus(A,8)
False
>>> |
```

latihan41(2).py - C:/Users/kevin/Pictures/MODUL_4/latihan41(2).py (3.8.1)
File Edit Format Run Options Window Help

```

        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):
        print("Saya nbaru saja makan",s,"sambil tidur.")
        self.keadaan='kenyang'

class MhsTIF(mahasiswa):
    def katakanPy(self):
        print('Python is cool')

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

```

Python 3.8.1 Shell
File Edit Shell Debug Options Window Help

```

Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:3
tel)] on win32
Type "help", "copyright", "credits" or "license()" f
>>>
===== RESTART: C:/Users/kevin/Pictures/MODUL_4/
Deni tinggal di Klaten
Janto tinggal di Klaten
>>> |

```

Python 3.8.1 Shell
File Edit Shell Debug Options Window Help

```

Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:3
tel)] on win32
Type "help", "copyright", "credits" or "l
>>>
===== RESTART: C:/Users/kevin/Pictu
>>> a=[5, 6, 3, 17, 14, 15, 62, 18]
>>> cariTerkecil(a)
3
>>>

```

latihan41(3).py - C:/Users/kevin/Pictures/MODUL_4/latihar
File Edit Format Run Options Window Help

```

def cariTerkecil(kumpulan):
    n=len(kumpulan)
    terkecil=kumpulan[0]
    for i in range(1,n):
        if kumpulan[i] < terkecil:
            terkecil=kumpulan[i]
    return terkecil

```

Latihan 4.2

<div>Python 3.8.1 Shell</div> <div>File Edit Shell Debug Options Window Help</div> <div>Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 tel)] on win32 Type "help", "copyright", "credits" or "l >>> ===== RESTART: C:/Users/kevin/Pict >>> a=[1, 2, 4, 5, 41, 31, 12, 6, 8, 18] >>> binSe(a, 3) False >>> binSe(a, 1) True >>> binSe(a, 12) False >>> binSe(a, 5) True >>></div>	<div>latihan42.py - C:/Users/kevin/Pictures/MODUL_4/latihan42.py (3.8.1)</div> <div>File Edit Format Run Options Window Help</div> <div>def binSe(kumpulan, target): low=0 high=len(kumpulan)-1 while low <=high: mid=(high+low)//2 if kumpulan[mid]==target: return True elif target < kumpulan[mid]: high=mid-1 else: low=mid+1 return False</div>
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