

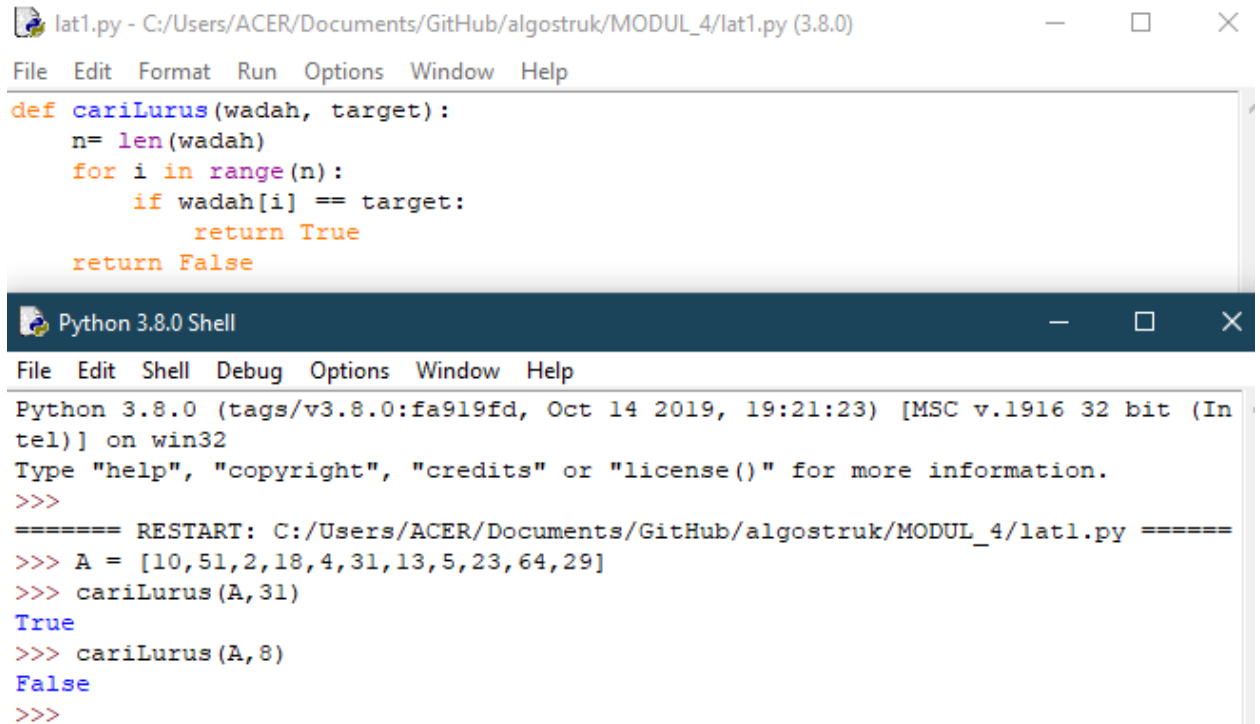
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Kelas : A

Modul 4 kegiatan

1. Nomor 1



```
lat1.py - C:/Users/ACER/Documents/GitHub/algostruk/MODUL_4/lat1.py (3.8.0)
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

Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ACER/Documents/GitHub/algostruk/MODUL_4/lat1.py =====
>>> A = [10,51,2,18,4,31,13,5,23,64,29]
>>> cariLurus(A,31)
True
>>> cariLurus(A,8)
False
>>>
```

```

class Manusia(object):
    keadaan='Lapar'
    def __init__(self,nama):
        self.nama=nama
    def ucapkansalam(self):
        print("salam, namaku",self.nama)
    def makan(self,s):
        self.keadaan='kenyang'
    def olahraga(self, k):
        print("Saya baru saja latihan",k)
        self.keadaan='lapar'
    def mengalikandengandua(self,n):
        return n*2

class mahasiswa(Manusia):
    def __init__(self,nama,NIM,kota,us):
        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):
        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',230000)
c2 = MhsTIF('ahmad',2,'surakarta',250000)
c3 = MhsTIF('candra',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)

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 3.8.0 Shell

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----- KESIAKTI: C:/Users/ACER

==

deni tinggal di klaten

janto tinggal di klaten

*lat3.py - C:/Users/ACER/Documents/GitHub/algostruk/MODUL_4/lat3.py (3.8.0)

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```

c0 = 240000
c1 = 230000
c2 = 250000
c3 = 235000
c4 = 240000
c5 = 250000
c6 = 245000
c7 = 245000
c8 = 245000
c9 = 270000
c10 = 265000

daftar = [c0,c1,c2,c3,c4,c5,c6,c7,c8,c9,c10]

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(cariTerkecil(daftar))

```

Python 3.8.0 Shell

File Edit Shell Debug Options Window Help

Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019) on win32

Type "help", "copyright", "credits" or "quit()"

>>>

===== RESTART: C:/Users/ACER/Docum

230000

>>> |

3. Nomor 3

```
lat4.py - C:/Users/ACER/Documents/GitHub/algostruk/MODUL_4,
File Edit Format Run Options Window Help

c0 = 240000
c1 = 230000
c2 = 250000
c3 = 235000
c4 = 240000
c5 = 250000
c6 = 245000
c7 = 245000
c8 = 245000
c9 = 270000
c10 = 265000

daftar = [c0,c1,c2,c3,c4,c5,c6,c7,c8,c9,c10]
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

print(binSe(daftar,245000))
print(binSe(daftar,270000))
```

```
Python 3.8.0 Shell
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C:/Users/ACER/Documents/GitHub/algostruk/MODUL_4/lat4.py
False
True
>>> |
```

4. Nomor 4