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KEGIATAN MODUL 4

carilurus.py - D:/Informatika/Semester 4/Prak. Algoritma dan Struktur data/carilurus.py (3.8.2)

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

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```
>>> A=[10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
>>> carilurus(A,31)
True
>>> carilurus(A,8)
False
>>>
```

```
class MhsTIF(Mahasiswa):
    """class MhsTIF yang dibangun dari class 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 3.8.2 Shell

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```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:/Informatika/Semester 4/Prak. Algoritma dan Struktur data/mhstarget
.py
Deni tinggal di Klaten
Janto tinggal di Klaten
>>>
```

4.1.py - D:/Informatika/Semester 4/Prak. Algoritma dan Struktur data/4.1.py (3.8.2)

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

Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: D:/Informatika/Semester 4/Prak. Algoritma dan Struktur data/4.1.py =
>>> a=[9,5,8,3,6,3,6,1]
>>> cariTerkecil(a)
1
>>>
```

binse.py - D:/Informatika/Semester 4/Prak. Algoritma dan Struktur data/binse.py (3.8.2)

File Edit Format Run Options Window Help

```
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 :
        #temukan pertengahan runtut itu
        mid = (high + low) // 2
        #apakah pertengahan memuat target ?
        if kumpulan[mid] == target:
            return True
        #ataukah targetnya disebelah kirinya?
        elif target < kumpulan[mid]:
            high = mid - 1
        #ataukah targetnya di sebelah kanannya ?
        else:
            low = mid + 1
    #jika runtutnya tidak bisa di belah lagi,berarti targetnya tidak ada
    return False
```

Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:/Informatika/Semester 4/Prak. Algoritma dan Struktur data/binse.py
>>> A=[5,6,3,17,14,15,62,18]
>>> Binse(A,17)
True
>>> Binse(A,9)
False
>>>
```