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Kelas : H

Modul 4

No 1

<pre>File Edit Format Run Options Window Help class Mahasiswa(object): def __init__(self, nama, nim, kota, uangsaku): self.nama = nama self.nim = nim self.tempatTinggal = kota self.uangSaku = uangsaku m0 = Mahasiswa("Jono", 123, "Sragen", 240000) m1 = Mahasiswa("Andi", 154, "Yogyakarta", 230000) m2 = Mahasiswa("Jordi", 108, "Surakarta", 230000) m3 = Mahasiswa("Lala", 140, "Surakarta", 235000) m4 = Mahasiswa("Putri", 113, "Boyolali", 240000) m5 = Mahasiswa("Raihan", 132, "Semarang", 250000) m6 = Mahasiswa("Janis", 186, "Klaten", 245000) m7 = Mahasiswa("Nanda", 199, "Wonogiri", 245000) m8 = Mahasiswa("Putantri", 187, "Klaten", 245000) m9 = Mahasiswa("Hardi", 153, "Karanganyar", 270000) m10 = Mahasiswa("Maya", 148, "Purwodadi", 265000) Daftar = [m0, m1, m2, m3, m4, m5, m6, m7, m8, m9, m10] def cariKotaTinggal(list, target): a = [] for i in list: if i.tempatTinggal == target: a.append(list.index(i)) return a a = cariKotaTinggal(Daftar, "Semarang") print(a)</pre>	<pre>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 (Intel)] on win32 Type "help", "copyright", "credits" or "license()" for more information. >>> ==== RESTART: C:\Users\GL63\Desktop\Prak ASD modul 3 & 4\Modul 4\nomor 1.py ==== [5] >>> </pre>
Ln 9 Col 47	Ln 6 Col 4

No 2

<pre>File Edit Format Run Options Window Help class Mahasiswa(object): def __init__(self, nama, nim, kota, uangsaku): self.nama = nama self.nim = nim self.tempatTinggal = kota self.uangSaku = uangsaku m0 = Mahasiswa("Jono", 123, "Sragen", 240000) m1 = Mahasiswa("Andi", 154, "Yogyakarta", 230000) m2 = Mahasiswa("Jordi", 108, "Surakarta", 230000) m3 = Mahasiswa("Lala", 140, "Surakarta", 235000) m4 = Mahasiswa("Putri", 113, "Boyolali", 240000) m5 = Mahasiswa("Raihan", 132, "Semarang", 250000) m6 = Mahasiswa("Janis", 186, "Klaten", 245000) m7 = Mahasiswa("Nanda", 199, "Wonogiri", 245000) m8 = Mahasiswa("Putantri", 187, "Klaten", 245000) m9 = Mahasiswa("Hardi", 153, "Karanganyar", 270000) m10 = Mahasiswa("Maya", 148, "Purwodadi", 265000) Daftar = [m0, m1, m2, m3, m4, m5, m6, m7, m8, m9, m10] def cariUangSakuTerkecil(list): temp = list[0].uangSaku for i in list[1:]: if i.uangSaku < temp: temp = i.uangSaku return temp a = cariUangSakuTerkecil(Daftar) print(a)</pre>	<pre>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 (Intel)] on win32 Type "help", "copyright", "credits" or "license()" for more information. >>> ==== RESTART: C:\Users\GL63\Desktop\Prak ASD modul 3 & 4\Modul 4\nomor 2.py ==== 230000 >>> </pre>
Ln 8 Col 45	Ln 6 Col 4

No 3

```
File Edit Format Run Options Window Help
class Mahasiswa(object):
    def __init__(self, nama, nim, kota, uangSaku):
        self.nama = nama
        self.nim = nim
        self.tempattinggal = kota
        self.uangSaku = uangSaku

m0 = Mahasiswa("Jono", 123, "Sragen", 240000)
m1 = Mahasiswa("Andi", 154, "Yogyakarta", 230000)
m2 = Mahasiswa("Jordi", 108, "Surakarta", 230000)
m3 = Mahasiswa("Lala", 140, "Surakarta", 235000)
m4 = Mahasiswa("Putri", 113, "Bojolali", 240000)
m5 = Mahasiswa("Raihan", 132, "Semarang", 250000)
m6 = Mahasiswa("Janis", 186, "Klaten", 245000)
m7 = Mahasiswa("Nanda", 199, "Wonogiri", 245000)
m8 = Mahasiswa("Putantri", 187, "Klaten", 245000)
m9 = Mahasiswa("Hardi", 153, "Karanganyar", 270000)
m10 = Mahasiswa("Maya", 148, "Purwodadi", 265000)

Daftar = [m0, m1, m2, m3, m4, m5, m6, m7, m8, m9, m10]

def cariUangSakuTerkecilObject(list):
    temp = [list[0]]
    for i in list[1:]:
        if i.uangSaku < temp[0].uangSaku:
            temp = [i]
        elif i.uangSaku == temp[0].uangSaku:
            temp.append(i)
    return temp

a = cariUangSakuTerkecilObject(Daftar)
print(a)
```

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Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:\Users\GL63\Desktop\Prak ASD modul 3 & 4\Modul 4\nomor 3.py ====
K8 [< _main_.Mahasiswa object at 0x0388A310>, < _main_.Mahasiswa object at 0x0388
K8 A370>]
K8 >>> |
K8
K8
K8
K8
K8
```

No 4

```
File Edit Format Run Options Window Help
class Mahasiswa(object):
    def __init__(self, nama, nim, kota, uangSaku):
        self.nama = nama
        self.nim = nim
        self.tempattinggal = kota
        self.uangSaku = uangSaku

m0 = Mahasiswa("Jono", 123, "Sragen", 240000)
m1 = Mahasiswa("Andi", 154, "Yogyakarta", 230000)
m2 = Mahasiswa("Jordi", 108, "Surakarta", 230000)
m3 = Mahasiswa("Lala", 140, "Surakarta", 235000)
m4 = Mahasiswa("Putri", 113, "Bojolali", 240000)
m5 = Mahasiswa("Raihan", 132, "Semarang", 250000)
m6 = Mahasiswa("Janis", 186, "Klaten", 245000)
m7 = Mahasiswa("Nanda", 199, "Wonogiri", 245000)
m8 = Mahasiswa("Putantri", 187, "Klaten", 245000)
m9 = Mahasiswa("Hardi", 153, "Karanganyar", 270000)
m10 = Mahasiswa("Maya", 148, "Purwodadi", 265000)

Daftar = [m0, m1, m2, m3, m4, m5, m6, m7, m8, m9, m10]

def cariUangSakuKurang250k(list):
    temp = []
    for i in list:
        if i.uangSaku < 250000:
            temp.append(i)
    return temp

a = cariUangSakuKurang250k(Daftar)
for i in a:
    print(i.nama)
```

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:\Users\GL63\Desktop\Prak ASD modul 3 & 4\Modul 4\nomor 4.py ====
Jono
Andi
Jordi
Lala
Putri
Nanda
Putantri
>>> |
```

No 6

```
File Edit Format Run Options Window Help
class Mahasiswa(object):
    def __init__(self, nama, nim, kota, uangSaku):
        self.nama = nama
        self.nim = nim
        self.tempattinggal = kota
        self.uangSaku = uangSaku

m0 = Mahasiswa("Jono", 123, "Sragen", 240000)
m1 = Mahasiswa("Andi", 154, "Yogyakarta", 230000)
m2 = Mahasiswa("Jordi", 108, "Surakarta", 230000)
m3 = Mahasiswa("Lala", 140, "Surakarta", 235000)
m4 = Mahasiswa("Putri", 113, "Bojolali", 240000)
m5 = Mahasiswa("Raihan", 132, "Semarang", 250000)
m6 = Mahasiswa("Janis", 186, "Klaten", 245000)
m7 = Mahasiswa("Nanda", 199, "Wonogiri", 245000)
m8 = Mahasiswa("Putantri", 187, "Klaten", 245000)
m9 = Mahasiswa("Hardi", 153, "Karanganyar", 270000)
m10 = Mahasiswa("Maya", 148, "Purwodadi", 265000)

Daftar = [m0, m1, m2, m3, m4, m5, m6, m7, m8, m9, m10]

def binSe(kumpulan, target):
    low = 0
    high = len(kumpulan)-1
    while low <= high:
        mid = (high+low)//2
        if kumpulan[mid] == target:
            return mid
        elif target < kumpulan[mid]:
            high = mid-1
        else:
            low = mid+1
    return False

kumpulan = [2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
print(binSe(kumpulan, 5))
```

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:\Users\GL63\Desktop\Prak ASD modul 3 & 4\Modul 4\nomor 6.py ====
2
>>> |
```

No 7

```
File Edit Format Run Options Window Help
class Mahasiswa(object):
    def __init__(self, nama, nim, kota, uangsaku):
        self.nama = nama
        self.nim = nim
        self.tempattinggal = kota
        self.uangsaku = uangsaku

m0 = Mahasiswa("Jono", 123, "Sragen", 240000)
m1 = Mahasiswa("Andi", 154, "Yogyakarta", 230000)
m2 = Mahasiswa("Jordi", 108, "Surakarta", 230000)
m3 = Mahasiswa("Lala", 140, "Surakarta", 235000)
m4 = Mahasiswa("Putri", 113, "Boyolali", 240000)
m5 = Mahasiswa("Raihan", 132, "Semarang", 250000)
m6 = Mahasiswa("Janis", 186, "Klaten", 245000)
m7 = Mahasiswa("Nanda", 199, "Wonogiri", 245000)
m8 = Mahasiswa("Putantri", 187, "Klaten", 245000)
m9 = Mahasiswa("Hardi", 153, "Karanganyar", 270000)
m10 = Mahasiswa("Maya", 148, "Purwodadi", 265000)

Daftar = [m0, m1, m2, m3, m4, m5, m6, m7, m8, m9, m10]

def binSeMass(kumpulan, target):
    temp = []
    low = 0
    high = len(kumpulan)-1
    while low <= high :
        mid = (high+low)//2
        if kumpulan[mid] == target:
            midKiri = mid-1
            while kumpulan[midKiri] == target:
                temp.append(midKiri)
                midKiri = midKiri-1
            temp.append(mid)
            midKanan = mid+1
            while kumpulan[midKanan] == target:
                temp.append(midKanan)
                midKanan = midKanan+1
            return temp
        elif target < kumpulan[mid]:
            high = mid-1
        else:
            low = mid+1
```

Ln:15 Col:0

```
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 (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:\Users\GL63\Desktop\Prak ASD modul 3 & 4\Modul 4\nomor 7.py ====
>>> [3, 4, 5]
>>>
1
1
2
2
1
2
2
2
```

Ln:5 Col:0