Praktikum Algostruk Modul 4

Nama: Oscar Satria Utama

NIM : L200180001

Kelas : A

Tugas

1.

2.

4.

```
Python 3.7.4 Shell
                                                                                                                                                                                        no4.py - E:/algostruk/MODUL_4/no4.py (3.7.4)
                                                                                                                                                                                                                                                                                                                                                           П
 File Edit Shell Debug Options Window Help
                                                                                                                                                                                          File Edit Format Run Options Window Help
                                                                                                                                                                                           class MhsTif(object):

def __init__(self, nama, nim, kota, uangsaku):
    self.nama = nama
    self.nim = nim
    self.kota = kota
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.
                            ===== RESTART: E:/algostruk/MODUL 4/no4.py ====
Bintang
                                                                                                                                                                                                            self.uangSaku = uangsaku
Budi
Chandra
                                                                                                                                                                                         c0 = MhsTif("Bintang", 10, "Solo", 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("Fandi", 31, "Salariga", 250000)
c6 = MhsTif("Beal", 13, "Klaten", 245000)
c7 = MhsTif("Galuh", 5, "Wonogiri", 245000)
c8 = MhsTif("Janto", 23, "Klaten", 245000)
c9 = MhsTif("Hasan", 64, "Karanganyar", 270000)
c10 = MhsTif("Khslid", 29, "Purwodadi", 265000)
Eka
Deni
Galuh
Janto
                                                                                                                                                                                          Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]
                                                                                                                                                                                           def cariUangSakuKurang250k(list):
                                                                                                                                                                                                  cariuangsakukurang250k(11st,
temp = []
for i in list:
   if i.uangSaku < 250000:</pre>
                                                                                                                                                                                                  temp.append(i)
return temp
                                                                                                                                                                                           a = cariUangSakuKurang250k(Daftar)
                                                                                                                                                                                           for i in a:
print(i.nama)
```

6.

```
*no5.py - E:/algostruk/MODUL_4/no5.py (3.7.4)*
                                                                           X
File Edit Format Run Options Window Help
class MhsTif (object):
    def __init__(self, nama, nim, kota, uangsaku):
        self.nama = nama
        self.nim = nim
        self.kota = kota
        self.uangSaku = uangsaku
c0 = MhsTif("Bintang", 10, "Solo", 240000)
cl = 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("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)
cl0 = MhsTif("Khalid", 29, "Purwodadi", 265000)
Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]
def cariLinkedList(head, target):
   temp = heado
   while temp.data != None:
       if temp.data == target:
           return temp
   return -1
```

7.

```
Python 3.7.4 Shell
                                                                                                                                                                                         no7.pv - E:/algostruk/MODUL 4/no7.pv (3.7.4)
                                                                                                                                                                                                                                                                                                                                                      File Edit Shell Debug Options Window Help
                                                                                                                                                                                         File Edit Format Run Options Window Help
                                                                                                                                                                                          class MhsTif(object):

def _init _(self, nama, nim, kota, uangsaku):
    self.nama = nama
    self.nim = nim
    self.kota = kota|
    self.uangSaku = uangsaku
  Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit
  (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
                                         === RESTART: E:/algostruk/MODUL_4/no7.py ===
                                                                                                                                                                                        c0 = Mhsfif("Bintang", 10, "Solo", 240000)
c1 = Mhsfif("Budi", 51, "Sragen", 230000)
c2 = Mhsfif("Budi", 51, "Sragen", 230000)
c3 = Mhsfif("Chandra", 18, "Surakarta", 25000)
c4 = Mhsfif("Chandra", 18, "Surakarta", 240000)
c5 = Mhsfif("Fandi", 31, "Salataga", 250000)
c6 = Mhsfif("Galuh", 5, "Monogiri", 245000)
c7 = Mhsfif("Galuh", 5, "Monogiri", 245000)
c8 = Mhsfif("Janto", 23, "Klaten", 245000)
c9 = Mhsfif("Hasan", 64, "Karanganya", 270000)
c10 = Mhsfif("Hasan", 64, "Karanganya", 270000)
c10 = Mhsfif("Khalid", 29, "Furwodadi", 265000)
                                                                                                                                                                                         Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]
                                                                                                                                                                                          def binSeMass(kumpulan, target):
                                                                                                                                                                                                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(midKanan)
midKanan = midKanan+1
                                                                                                                                                                                                         return temp
elif target < kumpulan[mid]:
high = mid-1
                                                                                                                                                                                                         else:
                                                                                                                                                                   Ln: 7 Col: 4
8.
```

X

no8.py - E:/algostruk/MODUL_4/no8.py (3.7.4)

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```
"""Karena menggunakan konsep Big-O. Dimana yang dipakai
adalah rumus O(\log n) dengan rincian 1 = 1, 2 = 2, 4 = 3, 10 = 4, 100 = 7, 1000=
Di mana log berasal dari pangkat log berbasis 2. Dengan begitu dapat mengetahui
maksimal tebakan.
Untuk pola sendiri:
        apabila ingin menebak angka 70
        a = nilai tebakan pertama // 2
        tebakan selanjutnya = nilai tebakan "lebih dari" + a
        *jika hasil tebakan selanjutnya "kurang dari", maka nilai yang dipakai
        tetap nilai lebih dari sebelumnya*
        a = a / / 2
    Simulasi
       tebakan ke 1: 50 (mengambil nilai tengah) jawaban= "lebih dari itu"
        tebakan ke 2: 75 (dari 50 + 25) jawaban = "kurang dari itu"
        tebakan ke 3: 62 (dari 50 + 12) jawaban = "lebih dari itu"
        tebakan ke 4: 68 (dari 62 + 6) jawaban = "lebih dari itu"
       tebakan ke 5: 71 (dari 68 + 3) jawaban = "kurang dari itu"
       tebakan ke 6: 69 (dari 68 + 1) jawaban = "lebih dari itu"
        tebakan ke 7: antara 71 dan 69 hanya ada 1 angka = 70!!!
nnn
```