Modul 4 Tugas

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Kelas : E

Nomor 1

```
Tugas_Modul4_126.py - C:\Users\user\Downloads\Tugas_Modul4_126.py (3.7.4)
                                                                                                                                                                                                                                                                    File Edit Shell Debug Options Window Help
 File Edit Format Run Options Window Help
                                                                                                                          Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
class MhsTIF(object):
        def __init__(self,nama, umur,kota,us):
    self.nama = nama
    self.umur = umur
       == RESTART: C:\Users\user\Downloads\Tugas_Modul4_126.py ======
                                                                                                                           >>> cariKotaTinggal(Daftar, "Solo")
                                                                                                                           [3]
        return s
def ambilNama(self):
        return self.nama
def ambilNIM(self):
        return self.NIM

def ambilUangSaku(self):
    return self.uangSaku
c0 = MhsTIF('nana', 10, 'Yogyakarta', 280000)
c1 = MhsTIF('cika', 51, 'Sragen', 230000)
c2 = MhsTIF('Ahmad', 2, 'Surakarta', 200000)
c3 = MhsTIF('Ahmad', 18, 'Solo', 235000)
c4 = MhsTIF('Eana', 4, 'Boyolali', 240000)
c5 = MhsTIF('Iala', 31, 'Salatiga', 200000)
c6 = MhsTIF('Iala', 13, 'Klaten', 245000)
c7 = MhsTIF('Galuh', 5, 'Wonogiri', 275000)
c8 = MhsTIF('unu', 23, 'Klaten', 245000)
c9 = MhsTIF('unu', 64, 'Karanganyar', 270000)
c10 = MhsTIF('joko', 29, 'Boyolali', 265000)
 Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]
 #Tugas 1
def cariKotaTinggal(list, target):
       kt = []
for i in list:
               if i.kotaTinggal == target:
    kt.append(list.index(i))
        return kt
```

Nomor 2,3,4

```
*Tugas_Modul4_126.py - C:\Users\user\Downloads\Tugas_Modul4_126.py (3.7.4)*
                                                                                                                                            Python 3.7.4 Shell
                                                                                                                                                                                                                                                                                       File Edit Format Run Options Window Help
                                                                                                                                             File Edit Shell Debug Options Window Help
                                                                                                                                            Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.
       cariKotaTinggal(list, target):
      kt = []
for i in list:
                                                                                                                                             if i.kotaTinggal == target:
   kt.append(list.index(i))
       return kt
                                                                                                                                                >> uangTerkecil(Daftar)
                                                                                                                                             >>> uangTerkecilTarget(Daftar)
 def uangTerkecil(list):
                                                                                                                                            wammiersecuridage(Dattar)
[('cika', 51, 'Sragen', 230000), ('Ahmad', 2, 'Surakarta', 200000), ('andra', 18
, 'Solo', 235000), ('Eana', 4, 'Boyolali', 240000), ('lala', 31, 'Selatiga', 20
000), ('Deni', 13, 'Klaten', 245000), ('Galuh', 5, 'Wonogiri', 275000), ('umi',
23, 'Klaten', 245000), ('nurul', 64, 'Karanganyar', 270000), ('joko', 29, 'Boyol
       saku = list[0].uangSaku
       for us in list[1:]:
   if us.uangSaku < saku:
      saku = us.uangSaku
                                                                                                                                            all', 265000)

>> uangTerkecil275(Daftar)

Traceback (most recent call last):
    File "<pyshell#33", line l, in <module>
        uangTerkecil275(Daftar)

NameError: name 'uangTerkecil275' is not defined

>>> uangTerkecil250(Daftar)

(latk): | Sarror: 030000)
       return saku
def uangTerkecilTarget(list):
      daftar = []
saku = list[0].uangSaku
for u in list:
                                                                                                                                             >>> uanglerRecil250(DaTtar)
('cika', 51, Sragen', 230000)
('Ahmad', 2, 'Surakarta', 200000)
('andra', 18, 'Solo', 235000)
('Eana', 4, 'Boyolali', 240000)
('lala', 31, 'Salatiga', 200000)
('Deni', 13, 'Klaten', 245000)
('umi', 23, 'Klaten', 245000)
              if u.uangSaku < saku:
                      daftar.append((u.nama, u.umur, u.kotaTinggal, u.uangSaku))
       return daftar
#Tugas no 4
        uangTerkecil250(list):
      terkecil = 250000
daftar = []
       for u in list:
   if u.uangSaku < 250000:</pre>
       daftar.append((u.nama, u.umur, u.kotaTinggal, u.uangSaku))
for u in daftar:
```

Nomor 5,6

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Tugas_Modul4_126.py - C:\Users\user\Downloads\Tugas_Modul4_126.py (3.7.4)
                                                                                                                                                            Python 3.7.4 Shell
File Edit Format Run Options Window Help
                                                                     File Edit Shell Debug Options Window Help
#Tugas no 5
                                                                     Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit
 class Sambung:
                                                                     (AMD64)] on win32
    def __init__(self,data):
    self.data = data
    self.next = None
                                                                     Type "help", "copyright", "credits" or "license()" for more information.
                                                                                ==== RESTART: C:\Users\user\Downloads\Tugas_Modul4_126.py =========
                                                                     >>> L = LinkedList()
class LinkedList:
                                                                     >>> L.baru(1)
    def __init__(self):
    self.head = None
def baru(self, data_baru):
                                                                     >>> L.baru(2)
                                                                     >>> L.baru(3)
                                                                     >>> L.cari(8)
         sambung_baru = Sambung(data_baru)
                                                                     False
         sambung baru.next = self.head
                                                                     >>> L.cari(1)
    self.head = sambung_baru
def baruu(self, data):
                                                                     True
                                                                     >>> L.tampil()
        if(self.head == None):
    self.head = Node(data)
              current = self.head
              while (current.next != None):
                  current = current.next
              current.next = Sambung(data)
         return self.head
    def insert(self, data, pos):
         sambung = Sambung(data)
if not self.head:
         self.head = sambung
elif posisi == 0:
              sambung.next = self.head
              self.head = sambung
              prev = None
              current = self.head
              current_pos = 0
              while (current pos < pos) and current.next:
                  prev = current
                  current = current.next
                   current_pos += 1
              prev.next = sambung
sambung.next = current
         return self.head
```

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Tugas_Modul4_126.py - C:\Users\user\Downloads\Tugas_Modul4_126.py (3.7.4)
                                                                                                Python 3.7.4 Shell
                                                                                                                                                                                                  File Edit Format Run Options Window Help
                                                                                                   File Edit Shell Debug Options Window Help
         self.head = sambung
else:
                                                                                                   Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit
                                                                                                   (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.
              prev = None
               current = self.head
                                                                                                   current = self.head
current_pos = 0
while(current_pos < pos) and current.next:
prev = current
                    current = current.next
current_pos += 1
                                                                                                   False
>>> target = 29
              prev.next = sambung
sambung.next = current
                                                                                                   >>> binSe(daftar,target)
False
    return self.head

def cari(self, c):
    current = self.head
                                                                                                   >>> binSe(daftar,target)
         while current != None:
if current.data == c:
                                                                                                   False
                                                                                                   >>> binSe(daftar,target)
               return True
current = current.next
                                                                                                   'Target berada pada index8'
    def tampil(self):

current = self.head

while current != None:
              print(current.data)
current = current.next
def binSe(kumpulan, target):
    low = 0
high = len(kumpulan) - 1
    while low <= high:
         le low <= nigh:
mid = (low + high) //2
if kumpulan[mid] == target:
    return "Target berada pada index" + str(mid)
         elif target < kumpulan[mid]:
    high = mid -1</pre>
         else:
               low = mid + 1
```

Nomor 7,8

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Tugas_Modul4_126.py - C:\Users\user\Downloads\Tugas_Modul4_126.py (3.7.4)
                                                                           Python 3.7.4 Shell
File Edit Format Run Options Window Help
                                                                           File Edit Shell Debug Options Window Help
    while low <= high:
  mid = (low + high) //2
  if kumpulan[mid] == target:</pre>
                                                                           Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit
                                                                          (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
              return "Target berada pada index" + str(mid)
                                                                                     ==== RESTART: C:\Users\user\Downloads\Tugas_Modul4_126.py =========
         elif target < kumpulan[mid]:</pre>
                                                                          >>> L = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29, \overline{10}] >>> target = 10
              high = mid -1
         else:
                                                                           >>> binSee(L, target)
              low = mid + 1
                                                                           [0, 11]
    return False
                                                                           >>> binSee(L. target)
#Tugas 7
                                                                           >>> binSeee(L, target)
def binSee(kumpulan, target):
    low = 0
                                                                           >>>
    high = len(kumpulan) - 1
list = []
    while low <= high:
         if kumpulan[low] == target:
              list.append(low)
low += 1
         else:
              low += 1
    return list
#Tugas 8
def binSeee(kumpulan, target):
    low = 0
     high = len(kumpulan) - 1
    while low <= high:
mid = (low + high) //2
         if kumpulan[low] == target:
    return mid
elif target > kumpulan[mid]:
              high = mid + 1
         else:
              low = mid - 1
    return -1
```