Nama : Viola Lovitasari NIM : L200180173

Kelas: G

MODUL 6 PRAK ASD

```
## Modubiblings - Culters violable Comments Modubibling (2.7.16)
File Edit Format Run Options Window Help

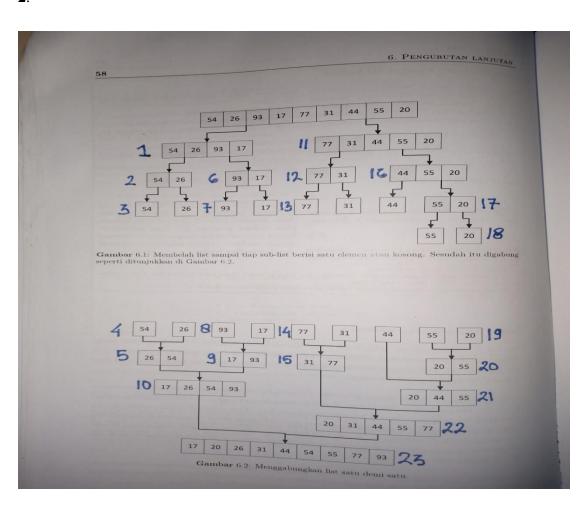
| Class Hartiff (Loo) = col; | def a format Run Options | look | look
```

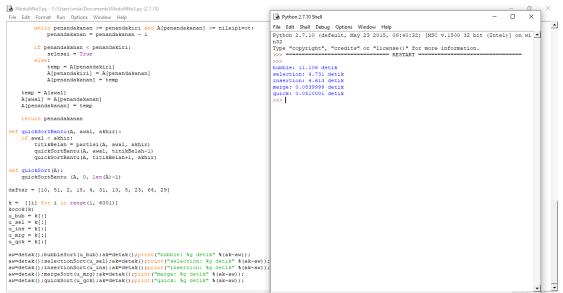
```
def urutkanMerge(arm):
    A = []
    for x in Deftar:
    A.append(x.nim)

print("Merge Sort")
    mergeSort(A)
    for x in convert(A, Daftar):
        print(x.nim)

urutkanMerge(Deftar)
    urutkanMuick(Deftar)
```

2.





4. a)Merge sort

L = [80, 7, 24, 16, 43, 91, 35, 2, 19, 72]

80	,	7	24	16	4	3	91	33	5	2	19	72
Prose	s 1											
7	80	2	26 2	4	4	43	91		2	35	19	72
_	_		ı									
Prose	s 2			_					_			
7	16	24	80		2	35	43	91		19	72	
				<u> </u>								
Prose	s 3							_				
2	7	16	24	35	43	80	91		19	72		

2	7	16	19	24	35	43	72	80	91
b) Quio	ek cort	L.							
			2 01 2	5 2 10	721				
L = [80]					i			l	
80	7	24	16	43	91	35	2	19	72
Pivot									
80	7	24	16	43	91	35	2	19	72
Low			I.		I.			I.	High
									8
									Pivot
72	7	24	16	43	91	35	2	19	80
Low									High
									C
									Pivot
72	7	24	16	43	91	35	2	19	80
					Low				High
									Ü
					Pivot				
72	7	24	16	43	80	35	2	19	91
			•	•	Low				High
								Pivot	2
72	7	24	16	43	19	35	2	80	91
	•	•	•	•	Low			High	

Pivot										
72	7	24	16	43	19	35	2	80	91	
Low	High									
		Pivot								
2	7	24	16	43	19	35	72	80	91	
Low	High									
Pivot										
2	7	24	16	43	19	35	72	80	91	
Low						High				
	Pivot	-								

2	7	24	16	43	19	35	72	80	91
	Low					High			
		D' 4							
	7	Pivot	1.0	12	10	25	70	00	0.1
2	7	24	16	43	19	35	72	80	91
		Low				High			
		Pivot							
2	7	24	16	43	19	35	72	80	91
		Low	'	•	High				
		1	T	T	Pivot				
2	7	19	16	43	24	35	72	80	91
		Low			High				
					Pivot				
2	7	19	16	43	24	35	72	80	91
		1	10	Low	High		, -	- 00	7.2
					8				
				Pivot					
2	7	19	16	24	43	35	72	80	91
				Low	High				
		Pivot							
2	7	19	16	24	43	35	72	80	91
	_ ′	Low	High	24	T 3	33	12	00	71
		LOW	mgn						
			Pivot						
2	7	16	19	24	43	35	72	80	91
		Low	High		_				
	1	T	T	1	Pivot		1		
2	7	16	19	24	43	35	72	80	91
					Low	High			
						Pivot			
2	7	16	19	24	35	43	72	80	91
		1	1	1	Low	High			
					- /.	<i>6</i>			
		1	1	1			1		
2	7	16	19	24	35	43	72	80	91

Modul6No5.py - C:\Users\viola\Documents\Modul6No5.py (2.7.10)

```
File Edit Format Run Options Window Help

print (1)

def mergeSort2(A, awal, akhir):
    mid = (awal-akhir)//2
    if awal < akhir:
    mergeSort2(A, awal, mid)
    mergeSort2(A, awal, mid)
    mergeSort2(A, mid-l, akhir)

a, f, 1 = 0, awal, mid-l
    tup = [Sone] * (akhir - awal + 1)
    while f = mid awal i = akhir:
    if A = mid awal i = aklil
    i = i = aklil
    i += 1
    a += 1

    if c = mid:
    ump[a] = A[f:mid-l]

if f = akhir:
    tup[a] = A[f:mid-l]

if 1 = akhir:
    tup[a] = A[f:mid-l]

a = 0

    while awal <= akhir:
    A[awal] = tup[a]
    awal += 1

def mergeSort(A), 0, len(A)-1)

print("Sebelum diurutkan")
    cetak ((Daftar)
    print("Nebelah diurutkan")
    cetak ((Daftar)
    print("Nebelah diurutkan")
    cetak ((Daftar)
    print("Nebelah diurutkan")
```

- 0 >



```
Python 2.7.10 Shell
                                                                                                                                                                                                                                                                                                                                                                                                                          - 0 ×
| The Edit Format Run Options Window Help
| Class MhsTIF():
| def _init_ (self, nama, nim, kota, us):
| self.nama = nama
| self.nim = nim
| self.kota = kota
| self.us = us
                                                                                                                                                                                        File Edit Shell Debug Options Window Help
Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC v.1500 32 bit (Intel)] on wi
                                                                                                                                                                                         Type "copyright", "credits" or "license()" for more information.
                                                                                                                                                                                       Sebelum diurutkan
Ika
Budi
Ahmad
Chandra
Eka
Fandi
Deni
Galuh
Janto
Hasan
Khalid
              def __str__(self):
    s = self.nama +', NIM '+str(self.nim)\
    +'. Tinggal di '+ self.kota \
    +'. Uang saku Rp. '+ str(self.us)\
    +' tiap bulannya.'
            def ambilNama(self):
    return self.nama
def ambilNim(self):
    return self.nim
def ambilUangSaku(self):
    return self.us
                                                                                                                                                                                      Rhalid
Setelah diurutkan Ika
Budi
Ahmad
Chandra
Eka
Fandi
Deni
Galun
Janto
Hasan
Kanto
Hasan
Khalid
courn self.us

co = MhsTIF("Ika", 10, "Sukoharjo", 240000)

c1 = MhsTIF("Bhdi", 51, "Sragen", 230000)

c2 = MhsTIF("Ahmad", 2, "Surakarta", 250000)

c3 = MhsTIF("Chandra", 18, "Surakarta", 250000)

c4 = MhsTIF("Chandra", 18, "Surakarta", 250000)

c5 = MhsTIF("Randi", 31, "Salatiga", 250000)

c6 = MhsTIF("Galuh", 5, "Sknogiti", 245000)

c8 = MhsTIF("Galuh", 5, "Knogiti", 245000)

c9 = MhsTIF("Galuh", 24, "Knogiti", 245000)

c1 = MhsTIF("Msaan", 64, "Karanganyar", 270000)

c10 = MhsTIF("Rhsan", 24, "Karanganyar", 270000)
  Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]
A = []
for i in Daftar:
A.append(i.nama)
   def cetak():
    for i in A:
        print(i)
```

- 6 >

```
No 6.py - C\User\viola\Documents\Modul 6\No 6.py (2.7.10)

File Edit Format Run Options Window Help

S = MmsTIT("Fanair", 31, "Salatiqa", 250000)

GE = MmsTIT("Fanair", 13, "Klaten", 255000)

GE = MmsTIT("Galuh", 5, "Wonogist", 255000)

GB = MmsTIT("Galuh", 23, "Rlaten", 245000)

GB = MmsTIT("Hasan", 64, "Marangangar", 270000)

Gl = MmsTIF("Hasan", 64, "Marangangar", 270000)

Gl = MmsTIF("Rhalid", 29, "Purwodadi", 265000)
    Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10] A = [] for i in Daftar: A.append(i.nama)
      def cetak():
    for i in A:
        print(i)
      print(1)

def quickSort(arr):
    kwrang = []
    pivotList = []
    iebih = []
    if len(arr) <= 1:
        return arr
    else:
        pivot = arr[0]
        for i in arr:
            if i < pivot:
                kwrang.append(i)
        elifi > pivot:
                lebih.append(i)
        else:
                                          lebih.append(i)
else:
pivotList.append(i)
kurang = quickSort(kurang)
lebih = quickSort(lebih)
return kurang + pivotList + lebih
    print("Sebelum diurutkan")
cetak()
print("\nSetelah diurutkan")
quickSort(A)
cetak()
```

7.

8.



mergeSortLL(a) cetak(a)

```
Modul6No8.py - C:\User\viola\Documents\Modul6No8.py (2.7.10)

File Edit Format Run Options Window Help

except:

A = A
          if len(A) > 1:
    mid = len(A) // 2
    separuhkiri = A[:mid]
    separuhkanan = A[mid:]
                  mergeSortLL(separuhkiri)
mergeSortLL(separuhkanan)
                 while i < len(separuhkiri):
    A[k] = separuhkiri[i]
    i = i + 1
    k=k+1</pre>
                  while j < len(separuhkanan):
    A[k] = separuhkanan[j]
    j = j + 1
    k=k+1</pre>
          for x in A:
    try:
        linked.data = x
        linked = linked.tautan
except:
    pass
```