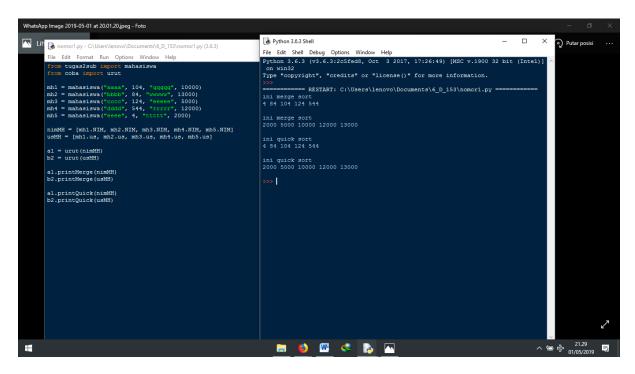
Ivanovitcz A.A.R L200170153 Kelas D Modul 6

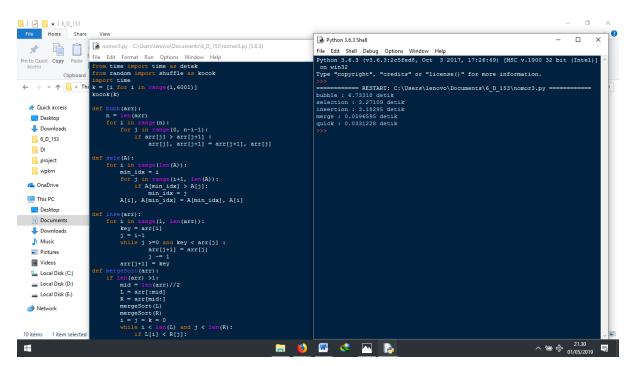
### Nomor 1



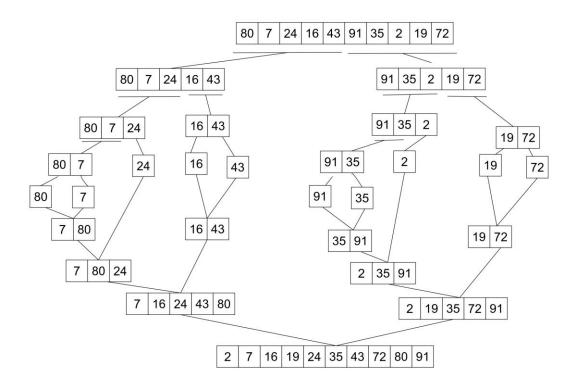
## Nomor 2

-

#### Nomor 3



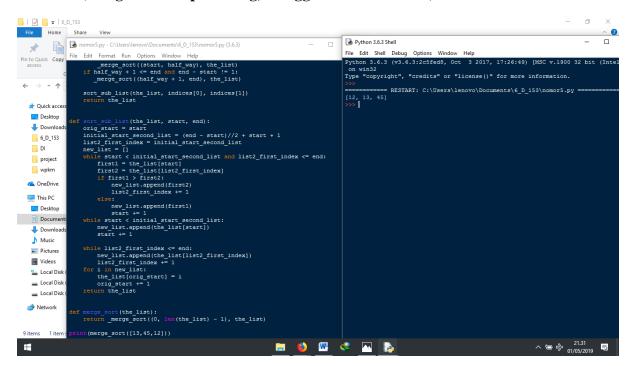
# **Nomor 4 A (Tracing Algorithm Merge Sort)**



# Nomor 4 B (Tracing Algorithm Quick Sort)

-

# Nomor 5 (Merge Sort tanpa Slicing, menggunakan recursive)



## Nomor 6 (Quick Sort dengan Median of Three )

```
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                                                                                                                                        Python 3.6.3 Shell
                                                                                                                                        File Edit Shell Debug Options Window Help

Bythom 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 17:26:49) [MSC v.1900 32 bit (Intel)]
on win32

Type "copyright", "credits" or "license()" for more information.
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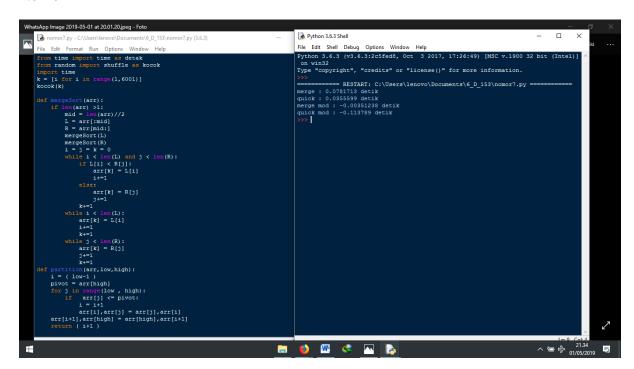
pivot_location, result = Partition(L, low, high, ascending)

result += quicksorthelp(L, low, pivot_location, ascending)

result += quicksorthelp(L, pivot_location + 1, high, ascending)

return result
                                                                                                                                        sorted:
[124, 123, 15, 12, 4]
             return 1 - 1, result
f median_of_three(L, low, high):
mid = (low+high-1)//2
a = L(low)
b = L[mid]
c = L(high-1)
if a <= b <= c:
    return b, mid
if a <= b <= a:
    return c, high-1
if b <= c <= a:
    return c, high-1
return a, low</pre>
□ D
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      y v
    Ne liste1 = list([12,4,15,124,123])
            quickSort(listel, False) # descending order
                                                                                                                                                                                                                                                       へ 雪 歩 21.33
○1/05/2019 長
```

### Nomor 7



# Nomor 8 (Merge Sort dengan Linked List)

```
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ۵ 🕜
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Python 3.6.3 Shell
                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>File Edit Shell Debug Options Window Help</u>
                                                                                                                                                                                                                                                                                                                                                                                                                               def appendList(self, data):
node = Node(data)
if self.head == None:
self.head = node
else:
curr = self.head
while curr.next! = None:
curr = curr.next
curr.next = node
                                                                                        def appendSorted(self, data):
  node = Node(data)
  curr = self.head
  prev = None
                                                                                                 while curr is not None and curr.data < data:
    prev = curr
    curr = curr.next</pre>
                                                                                                                                                                                                                                                                                                                                                                                     if prev == None:
    self.head = node
                                                                                              self.nes.
else:
prev.next = node
                                                                                       def printList(self):
    curr = self.head
    while curr != None:
        print ("%d"%curr.data),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ^ 135 € 21.35 5
    #
```