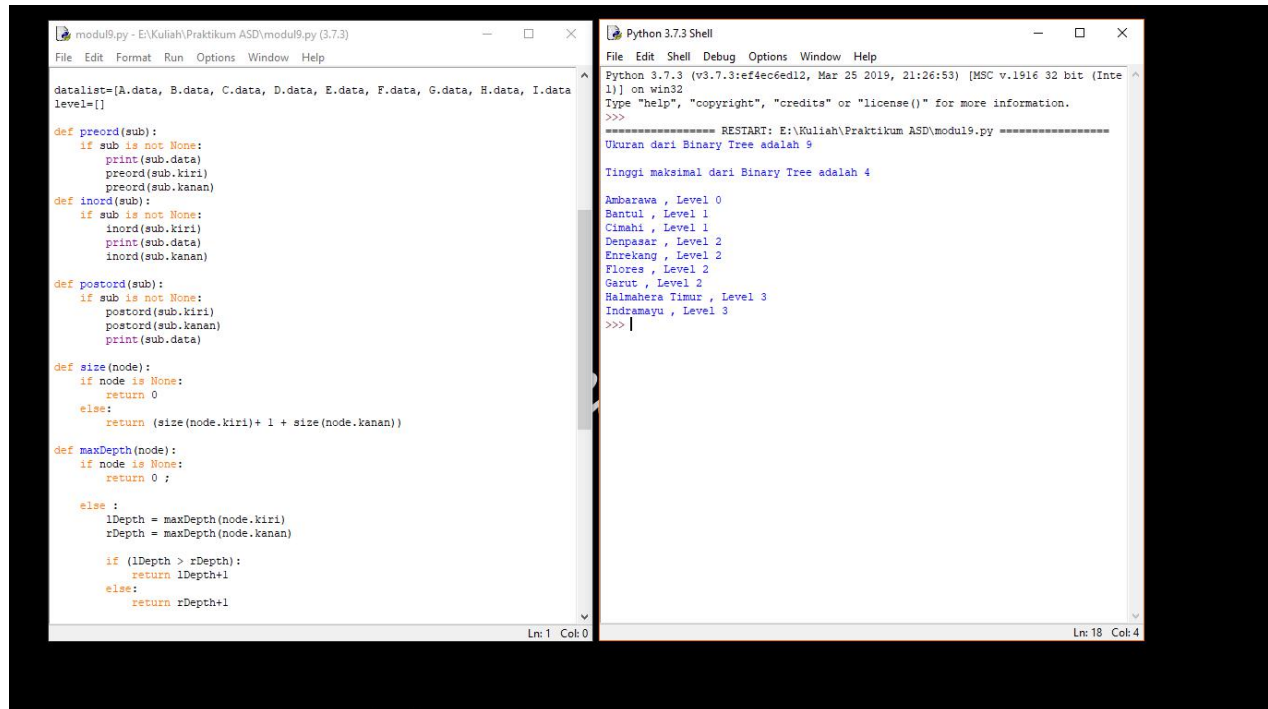


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Nomor 6 dan 7



The screenshot shows a Python IDE window titled 'modul9.py - E:\Kuliah\Praktikum ASD\modul9.py (3.7.3)' and a terminal window titled 'Python 3.7.3 Shell'. The IDE window contains the following code:

```
dataalist=[A.data, B.data, C.data, D.data, E.data, F.data, G.data, H.data, I.data]
level=[]

def preorder(sub):
    if sub is not None:
        print(sub.data)
        preorder(sub.kiri)
        preorder(sub.kanan)
def inorder(sub):
    if sub is not None:
        inorder(sub.kiri)
        print(sub.data)
        inorder(sub.kanan)
def postorder(sub):
    if sub is not None:
        postorder(sub.kiri)
        postorder(sub.kanan)
        print(sub.data)

def size(node):
    if node is None:
        return 0
    else:
        return (size(node.kiri)+ 1 + size(node.kanan))

def maxDepth(node):
    if node is None:
        return 0 ;

    else :
        lDepth = maxDepth(node.kiri)
        rDepth = maxDepth(node.kanan)

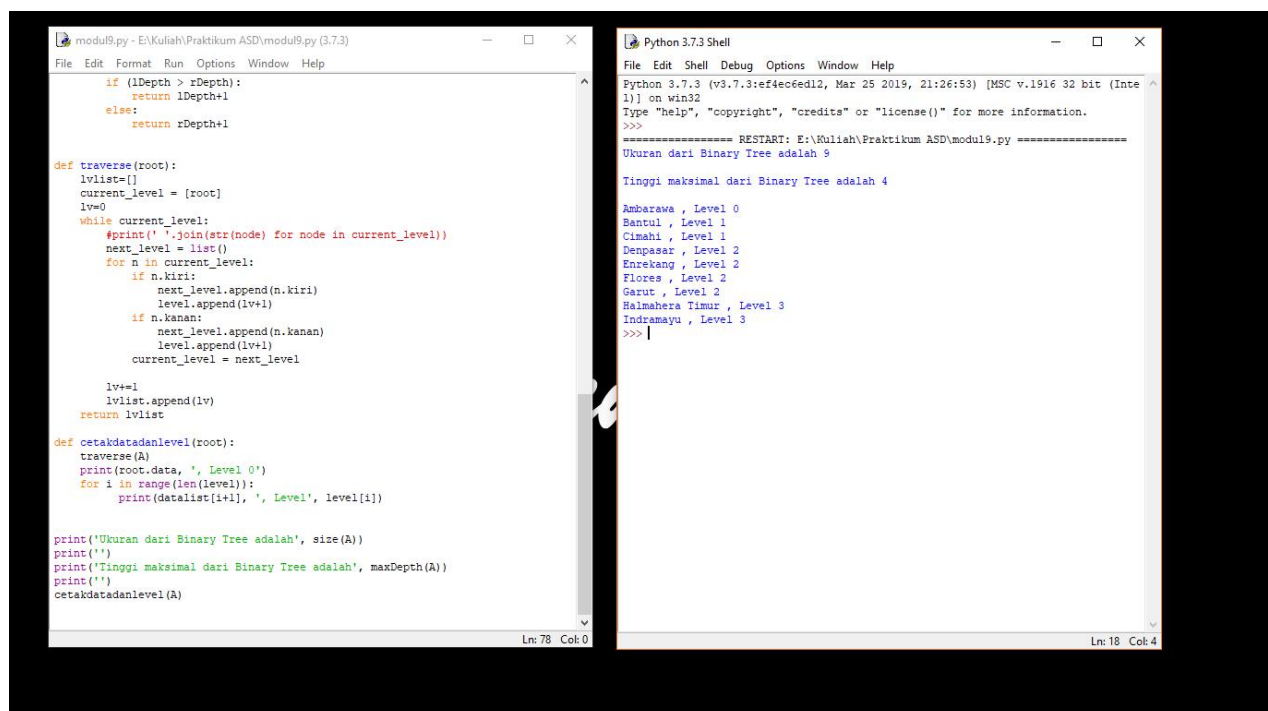
        if (lDepth > rDepth):
            return lDepth+1
        else:
            return rDepth+1
```

The terminal window shows the output of the program:

```
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\Kuliah\Praktikum ASD\modul9.py =====
Ukuran dari Binary Tree adalah 9
Tinggi maksimal dari Binary Tree adalah 4

Ambarawa , Level 0
Bantul , Level 1
Cimahi , Level 1
Denpasar , Level 2
Enrekang , Level 2
Flores , Level 2
Garut , Level 2
Halmahera Timur , Level 3
Indramayu , Level 3
>>>
```

Nomor 8



The screenshot shows a Python IDE window titled 'modul9.py - E:\Kuliah\Praktikum ASD\modul9.py (3.7.3)' and a terminal window titled 'Python 3.7.3 Shell'. The IDE window contains the following code:

```
if (lDepth > rDepth):
    return lDepth+1
else:
    return rDepth+1

def traverse(root):
    lvlist=[]
    current_level = [root]
    lv=0
    while current_level:
        #print(' '.join(str(node) for node in current_level))
        next_level = list()
        for n in current_level:
            if n.kiri:
                next_level.append(n.kiri)
                level.append(lv+1)
            if n.kanan:
                next_level.append(n.kanan)
                level.append(lv+1)
            current_level = next_level

        lv+=1
        lvlist.append(lv)
    return lvlist

def cetakdatadanlevel(root):
    traverse(A)
    print(root.data, ' , Level 0')
    for i in range(len(level)):
        print(dataalist[i+1], ' , Level', level[i])

print('Ukuran dari Binary Tree adalah', size(A))
print('')
print('Tinggi maksimal dari Binary Tree adalah', maxDepth(A))
print('')
cetakdatadanlevel(A)
```

The terminal window shows the output of the program:

```
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\Kuliah\Praktikum ASD\modul9.py =====
Ukuran dari Binary Tree adalah 9
Tinggi maksimal dari Binary Tree adalah 4

Ambarawa , Level 0
Bantul , Level 1
Cimahi , Level 1
Denpasar , Level 2
Enrekang , Level 2
Flores , Level 2
Garut , Level 2
Halmahera Timur , Level 3
Indramayu , Level 3
>>>
```