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Kelas : D

Modul 9

Nomor 6 dan 7

```
Python 3.6.3 Shell
modul9.py - D:\modul9.py (3.6.3)
                                                                                                                                       - □ ×
                                                                                                                                                                         File Edit Shell Debug Options Window Help

Python 3.6.3 (v3.6.3:205fed8, Oct 3 2017, 17:26:49) [MSC v.1900 32 bit (Intel) ^
] on win32

Type "copyright", "credits" or "license()" for more information.
File Edit Format Run Options Window Help
 datalist=[A.data, B.data, C.data, D.data, E.data, F.data, G.data, H.data, I.data
level=[]
                                                                                                                                                                           Ukuran dari Binary Tree adalah 9
def preord(sub):
   if sub is not None:
      print(sub.data)
      preord(sub.kiri)
                                                                                                                                                                          Tinggi maksimal dari Binary Tree adalah 4
                                                                                                                                                                          Ambarawa , Level 0
Bantul , Level 1
Cımahi , Level 1
Denpasar , Level 2
Enrekang , Level 2
Flores , Level 2
Garut , Level 2
Garut , Level 3
Indramayu , Level 3
>>>
preord(sub.kiri)
preord(sub.kanan)
def inord(sub):
if sub is not None:
inord(sub.kiri)
                print(sub.data)
inord(sub.kanan)
def postord(sub):
    if sub is not None:
       postord(sub.kiri)
       postord(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 :
                1Depth = maxDepth(node.kiri)
rDepth = maxDepth(node.kanan)
               if (lDepth > rDepth):
    return lDepth+1
else:
    return rDepth+1
```

Nomor 8

```
□ X Python 3.6.3 Shell
 modul9.py - D:\modul9.py (3.6.3)
                                                                                                                                                                                                  - 🗆 X
                                                                                                            File Edit Shell Debug Options Window Help
Python 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.
 File Edit Format Run Options Window Help
          if (1Depth > rDepth):
    return 1Depth+1
else:
    return rDepth+1
                                                                                                             Ukuran dari Binary Tree adalah 9
Tinggi maksimal dari Binary Tree adalah 4
                                                                                                             lv+=1
lvlist.append(lv)
return lvlist
 def cetakdatadanlevel(root):
    traverse(A)
      traverse(A)
print(root.data, ', Level 0')
for i in range(len(level)):
    print(datalist[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)
```