Nama : NARENDRA GUSTIAJI

NIM : L200170151

Kelas : D

Modul 9

## Nomor 6 dan 7

```
modul9.pv - D:\modul9.pv (3.6.3)
                                                                                                                                                        Python 3.6.3 Shell
                                                                                                                                                                    ×
File Edit Format Run Options Window Help
                                                                                                                                                                                  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.
 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)
        preord(sub.kiran)
def inord(sub):

                                                                                                                                                                                   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
Garut , Level 3
Indramayu , Level 3
        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):
        size(noue):
if node is None:
    return 0
else:
    return (size(node.kiri)+ 1 + size(node.kanan))
  def maxDepth(node):
   if node is None:
      return 0;
                lDepth = maxDepth(node.kiri)
rDepth = maxDepth(node.kanan)
                if (lDepth > rDepth):
    return lDepth+1
else:
    return rDepth+1
```

## Nomor 8

```
modul9.py - D:\modul9.py (3.6.3)
                                                                                                                 Python 3.6.3 Shell
                                                                                                                                    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) ^
File Edit Format Run Options Window Help
           if (lDepth > rDepth):
    return lDepth+1
else:
    return rDepth+1
                                                                                                                                     ] on win32
Type "copyright", "credits" or "license()" for more information.
                                                                                                                                       Property of the American Street Restart: D:\modul9.py ------
Ukuran dari Binary Tree adalah 9
 Ambarawa , Level 0
Bantul , Level 1
Bantul , Level 1
Cimahi , Level 1
Denpasar , Level 2
Enrekang , Level 2
Flores , Level 2
Flores , Level 2
Halmahera Timur , Level 3
Indramayu , Level 3
>>>
                                                                                                                                     Tinggi maksimal dari Binary Tree adalah 4
            lv+=1
lvlist.append(lv)
return lvlist
 def cetakdatadanlevel(root):
    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))
```