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# LAPORAN PRAKTIKUM ALGORTIMA DAN STRUKTUR DATA MODUL KE 8

#### Nomor 1

```
no1.py - C:\Users\USER\Desktop\no1.py (3.6.3)
                                                                                                                                    Python 3.6.3 Shell
File Edit Format Run Options Window Help

class Stack(object):
    """docstring for Stack"""
    def __init__(self):
        self.item=[]
                                                                                                                                    File Edit Shell Debug Options Window Help
Fython 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.
                                                                                                                                                               === RESTART: C:\Users\USER\Desktop\nol.py ====
            def isEmpty(self):
    return len(self)==0
            def __len__(self):
    return len(self.item)
            def peek(self):
                      rek(self):
    assert not self.isEmpty(), "Stack is Empty"
    return self.items[-1]
            def pop(self):
    assert not self.isEmpty(), "Stack is Empty"
    return self.item.pop()
            def push(self, data):
    self.item.append(data)
remstack=Stack()
            while value > 0:
    rem = value % 16
    remstack.push(rem)
    value = value // 16
            newString=""
while not remstack.isEmpty():
    newString = newString + digit[remstack.pop()]
print(newString)
  cetakHexa(31519)
```

# Nomor 2

```
no2.py - C:\Users\USER\Desktop\no2.py (3.6.3)
                                                                                                                 ☐ Python 3.6.3 Shell
class Stack(object):
    """docstring for Stack"""
    def __init_ (self):
        self.item=[]
                                                                                                                       File Edit Shell Debug Options Window Help

Fython 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.
                                                                                                                       Type "copyright", "c:
>>>

[0]
[0, 3]
[0, 3, 6]
[0, 3, 6, 9, 12]
[0, 3, 6, 9, 12, 15]
>>> |
                                                                                                                                                  == RESTART: C:\Users\USER\Desktop\no2.py ==
           def isEmpty(self):
    return len(self)==0
           def peek(self):
                       assert not self.isEmpty(), "Stack is Empty"
return self.item[-1]
           def pop(self):
                       p(self):
    assert not self.isEmpty(), "Stack is Empty"
    return self.item.pop()
           def push(self, data):
    self.item.append(data)
nilai = Stack()
for i in range(16):
    if i%3 == 0:
        nilai.push(i)
            print (nilai.item)
```

# Keterangan

i	i % 3 = 0	push
0	True	[0]
1	False	
2	False	
3	True	[0,3]
4	False	
5	False	
6	True	[0,3,6]
7	False	
8	False	
9	True	[0,3,6,9]
10	False	
11	False	
12	True	[0,3,6,9,12]
13	False	
14	False	
15	True	[0,3,6,9,12,15]

# Nomor 3

### Keterangan

i	i % 3 = 0	push	i % 4 = 0	pop			
0	True	[0]	-				
1	False		False				
2	False		False				

3	True	[0,3]	-	
4	False		True	[0]
5	False		False	
6	True	[0,6]	-	
7	False		False	
8	False		True	[0]
9	True	[0,9]	-	
10	False		False	
11	False		False	
12	True	[0,9,12]	-	
13	False		False	
14	False		False	
15	True	[0, 9,12,15]	-	