TUGAS PRAKTIKUM ALGORITMA DAN STRUKTUR DATA MODUL 8 "STACKS AND QUEUES"

1. Berikut screenshot programnya:

```
1.py - D:/Senester 4/Prak ALGOSTRUK/Modulke8_D_156/1.py (3.7.2)
                                                                                  X
                                                                            File Edit Format Run Options Window Help
class Stack(object):
   def __init__ (self):
       self.items = []
   def isEmpty(self):
       return len(self) == 0
   def __len__(self):
        return len(self.items)
   def peek(self):
       assert not self.isEmpty()
       return self.items[-1]
   def pop(self):
       assert not self.isEmpty()
       return self.items.pop()
   def push (self, data):
       self.items.append(data)
def cetakHexa(d):
   f = Stack()
   bil_hexa = ['A','B','C','D','E','F']
   if d==0: f.push(0);
   while d!=0:
       sisa = d%16
       if (sisa>9):
           sisa = sisa-10
           sisa = bil hexa[sisa]
       d=d//16
       f.push(sisa)
    st = ""
   for i in range (len(f)):
       st = st+str(f.pop())
   return st
```

Berikut output programnya:

D

```
Python 3.7.2 Shell
                                                                          ×
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 23:09:28) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
====== RESTART: D:/Senester 4/Prak ALGOSTRUK/Modulke8 D 156/1.py ========
>>> cetakHexa(12)
'C'
>>> cetakHexa(31)
'1F'
>>> cetakHexa(229)
'E5'
>>> cetakHexa(255)
'FF'
>>> cetakHexa(31519)
'7B1F'
>>>
```

2. Berikut screenshot programnya:

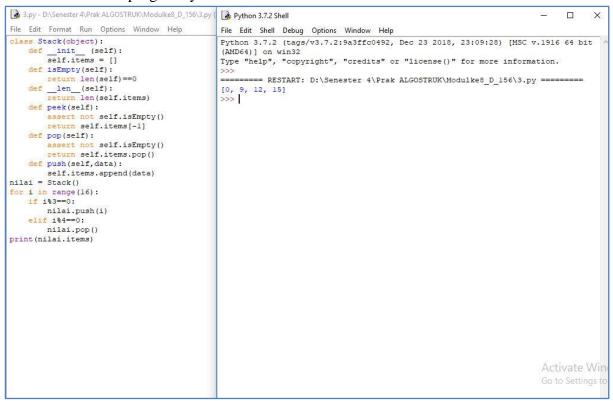
```
2.py - D:/Senester 4/Prak ALGOSTRUK/Modulke8_D_156/2.py Python 3.7.2 Shell
File Edit Format Run Options Window Help
                                                                 File Edit Shell Debug Options Window Help
class Stack(object):
                                                                 Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 23:09:28) [MSC v.1916 64 bit
     ss Stack(object):
    def _ init__ (self):
        self.items = []
    def isEmpty(self):
        return len(self)==0
    def _ len _ (self):
        return len(self.items)
    def nek(self):
                                                                  (AMD64) 1 on win32
                                                                 Type "help", "copyright", "credits" or "license()" for more information.
                                                                               = RESTART: D:/Senester 4/Prak ALGOSTRUK/Modulke8_D_156/2.py ======
                                                                  [0, 3, 6, 9, 12, 15]
     def peek(self):
    assert not self.isEmpty()
    return self.items[-1]
     def pop(self):
    assert not self.isEmpty()
    return self.items.pop()
     def push(self,data):
            self.items.append(data)
nilai =Stack()
for i in range(16):
    if i%3==0:
nilai.push(i)
print(nilai.items)
```

Muhibah Fata Tika L200170156 D

Nilai i dengan rentang 0-15 jika rentang i sisa bagi nya = 0 maka sisa tersebut dimasukan ke dalam stack. Setelah program dijalankan nilai i yang memiliki sisa bagi = 0 adalah 0,3,6,9,12,15.



3. Berikut screenshot programnya:



Nilai i dengan rentang 0-15 jika rentang i sisa bagi nya = 0 maka sisa tersebut dimasukan ke dalam stack. Setelah program dijalankan nilai i yang memiliki sisa bagi = 0 adalah 0,9,12,15.



Muhibah Fata Tika L200170156 D