


## Laporan Praktikum Algoritma & Struktur Data

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Kelas : D

Modul : 8 (Queue)

4.  no.4.py - C:\Users\lenovo\Documents\08\_D\_140\no.4.py (3.7.1)

```
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class Queue(object):
    def __init__(self):
        self.qlist = []
    def isEmpty(self):
        return len(self)==0
    def __len__(self):
        return len(self.qlist)
    def enqueue(self, data):
        self.qlist.append(data)
    def dequeue(self):
        assert not self.isEmpty(), 'Antrian sedang kosong.'
        return self.qlist.pop(0)
    def getFrontMost(self):
        assert not self.isEmpty()
        return self.qlist[0]
    def getRearMost(self):
        assert not self.isEmpty()
        return self.qlist[-1]

Q = Queue()
Q.enqueue(28)
Q.enqueue(21)
Q.enqueue(43)
Q.enqueue(98)
Q.enqueue(13)
print(Q.qlist)
print(Q.getFrontMost())
print(Q.getRearMost())
print(Q.qlist)
```

Python 3.7.1 Shell

```
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Python 3.7.1 (v3.7.1:260ec2c36a, Oct 20 2018, 14:57:15) [MSC v.1915 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\lenovo\Documents\08_D_140\no.4.py =====
[28, 21, 43, 98, 13]
28
13
[28, 21, 43, 98, 13]
>>> |
```

5.  no5.py - C:\Users\lenovo\Documents\08\_D\_140\no5.py (3.7.1)

```
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class PriorityQueue():
    def __init__(self):
        self.qlist = []
    def __len__(self):
        return len(self.qlist)
    def is_empty(self):
        return len(self) == 0
    def enqueue(self, data, priority):
        entry = _PriorityQEntry(data, priority)
        self.qlist.append(entry)
    def dequeue(self):
        A = []
        for i in self.qlist:
            A.append(i)
        s = 0
        for i in range(1, len(self.qlist)):
            if A[i].priority < A[s].priority:
                s = i
        hasil = self.qlist.pop(s)
        return hasil.item

class _PriorityQEntry():
    def __init__(self, data, priority):
        self.item = data
        self.priority = priority

Q = PriorityQueue()
Q.enqueue("Jeruk", 4)
Q.enqueue("Tomat", 2)
Q.enqueue("Mangga", 0)
Q.enqueue("Duku", 5)
Q.enqueue("Pepaya", 2)

print(Q.dequeue())
print(Q.dequeue())
print(Q.dequeue())
print(Q.dequeue())
print(Q.dequeue())
```

Python 3.7.1 Shell

```
File Edit Shell Debug Options Window Help

Python 3.7.1 (v3.7.1:260ec2c36a, Oct 20 2018, 14:57:15) [MSC v.1915 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\lenovo\Documents\08_D_140\no5.py =====
Mangga
Tomat
Pepaya
Jeruk
Duku
>>>
```