

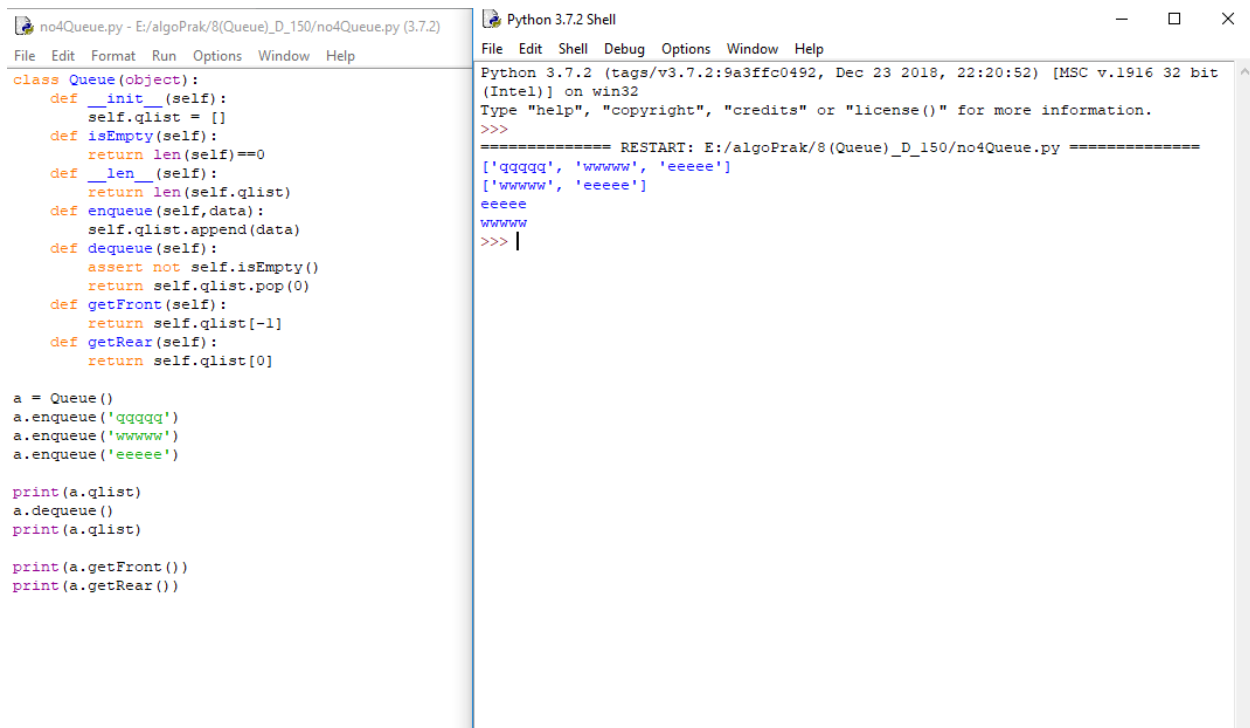
YOGA TRI PRIHATIN

MODUL 8 QUEUE

L200170150

KELAS D

NOMOR 2 QUEUE



```
no4Queue.py - E:/algoPrak/8(Queue)_D_150/no4Queue.py (3.7.2)
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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()
        return self.qlist.pop(0)
    def getFront(self):
        return self.qlist[-1]
    def getRear(self):
        return self.qlist[0]

a = Queue()
a.enqueue('qqqqq')
a.enqueue('wwwwww')
a.enqueue('eeeeee')

print(a.qlist)
a.dequeue()
print(a.qlist)

print(a.getFront())
print(a.getRear())

Python 3.7.2 Shell
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Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/algoPrak/8(Queue)_D_150/no4Queue.py =====
['qqqqq', 'wwwwww', 'eeeeee']
['wwwwww', 'eeeeee']
eeeeee
wwwwww
>>> |
```

NOMOR 4 PRIORQUEUE

```
no4PriorQueue.py - E:/algoPrak/8(Queue)_D_150/no4PriorQueue.py (3.7.2)
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import heapq
class Prior(object):
    def __init__(self):
        self.qlist= []
    def __len__(self):
        return len(self.qlist)
    def isEmpty(self):
        return len(self)==0
    def enqueue(self, data, prior):
        heapq.heappush(self.qlist, (prior, data))
        self.qlist.sort()
    def dequeue(self):
        return self.qlist.pop(-1)
    def getFront(self):
        return self.qlist[-1]
    def getRear(self):
        return self.qlist[0]

a = Prior()

a.enqueue('qqqqq', 5)
a.enqueue('wwwww', 1)
a.enqueue('eeee', 2)

print(a.qlist)
a.dequeue()
print(a.qlist)
```

```
Python 3.7.2 Shell
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Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/algoPrak/8(Queue)_D_150/no4PriorQueue.py =====
[(1, 'wwwww'), (2, 'eeee'), (5, 'qqqqq')]
[(1, 'wwwww'), (2, 'eeee')]
>>> |
```

## NOMOR 5

```
no5.py - E:/algoPrak/8(Queue)_D_150/no5.py (3.7.2)
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import heapq
class Prior(object):
    def __init__(self):
        self.qlist= []
    def __len__(self):
        return len(self.qlist)
    def isEmpty(self):
        return len(self)==0
    def enqueue(self, data, prior):
        heapq.heappush(self.qlist, (prior, data))
        self.qlist.sort()
    def dequeue(self):
        return self.qlist.pop(-1)

a = Prior()

a.enqueue('qqqqq', 5)
a.enqueue('wwwww', 1)
a.enqueue('eeee', 2)

print(a.qlist)
a.dequeue()
print(a.qlist)
```

```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help

Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/algoPrak/8(Queue)_D_150/no5.py =====
[(1, 'wwwww'), (2, 'eeee'), (5, 'qqqqq')]
[(1, 'wwwww'), (2, 'eeee')]
>>> |
```