

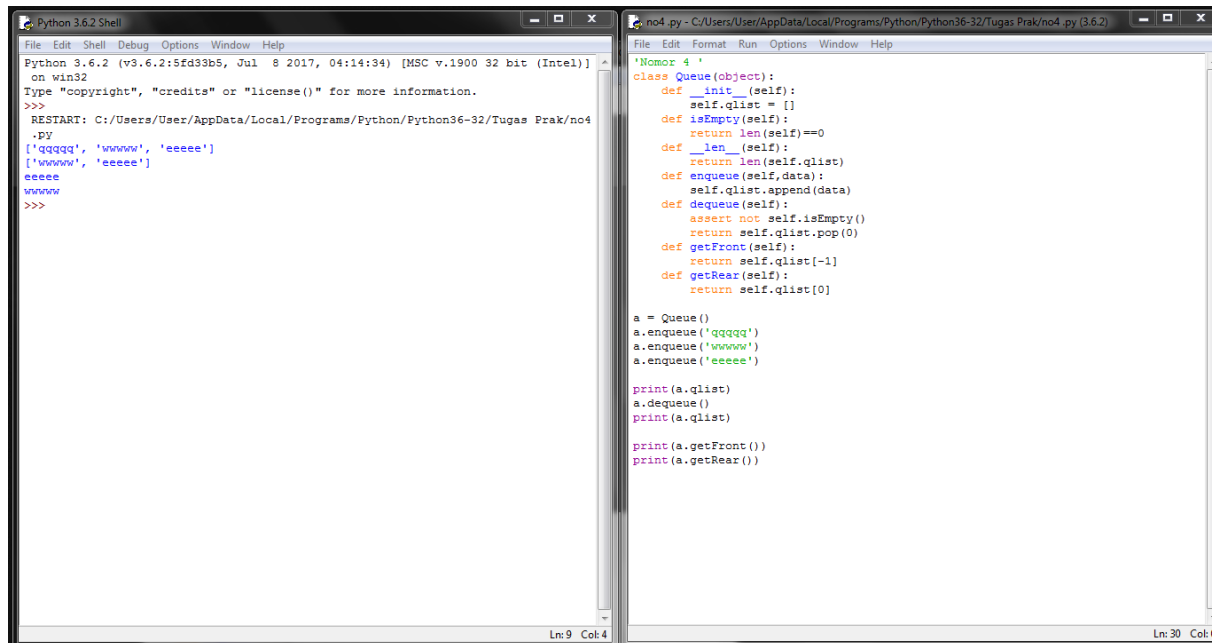
Nama : Muhammad Himmawan

NIM : L200170161

Kelas : D

Modul : 8 Queue

1.



The first screenshot shows a Python 3.6.2 Shell window with the following code:

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:/Users/User/AppData/Local/Programs/Python/Python36-32/Tugas Prak/no4
.PY
['qqqqq', 'wwwww', 'eeeeee']
['wwwww', 'eeeeee']
eeeeee
wwwww
>>>
```

The second screenshot shows a file editor window for 'no4.py' with the following code:

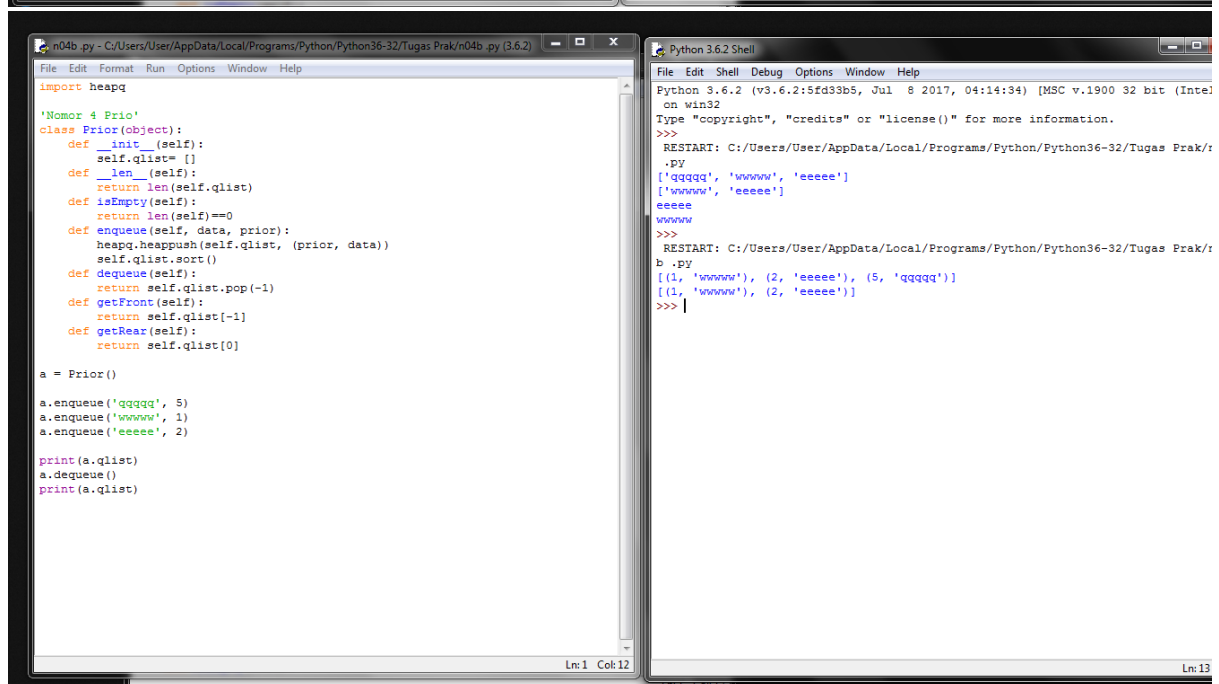
```
'Nomor 4'
class Queue(object):
    def __init__(self):
        self.qlist = []
    def isEmpty(self):
        return len(self)==0
    def __len__(self):
        return len(self.qlist)
    def enqueue(self,data):
        self.qlist.append(data)
    def dequeue(self):
        assert not self.isEmpty()
        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('wwwww')
a.enqueue('eeeeee')

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

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

2.



The first screenshot shows a file editor window for 'n04b.py' with the following code:

```
import heapq

'Nomor 4 Prio'
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('eeeeee', 2)

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

The second screenshot shows a Python 3.6.2 Shell window with the following code:

```
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)]
on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:/Users/User/AppData/Local/Programs/Python/Python36-32/Tugas Prak/n04b.py
>>>
['qqqqq', 'wwwww', 'eeeeee']
['wwwww', 'eeeeee']
eeeeee
wwwww
>>>
RESTART: C:/Users/User/AppData/Local/Programs/Python/Python36-32/Tugas Prak/n04b.py
b.PY
[(1, 'wwwww'), (2, 'eeeeee'), (5, 'qqqqq')]
[(1, 'wwwww'), (2, 'eeeeee')]
>>>
```

3.