

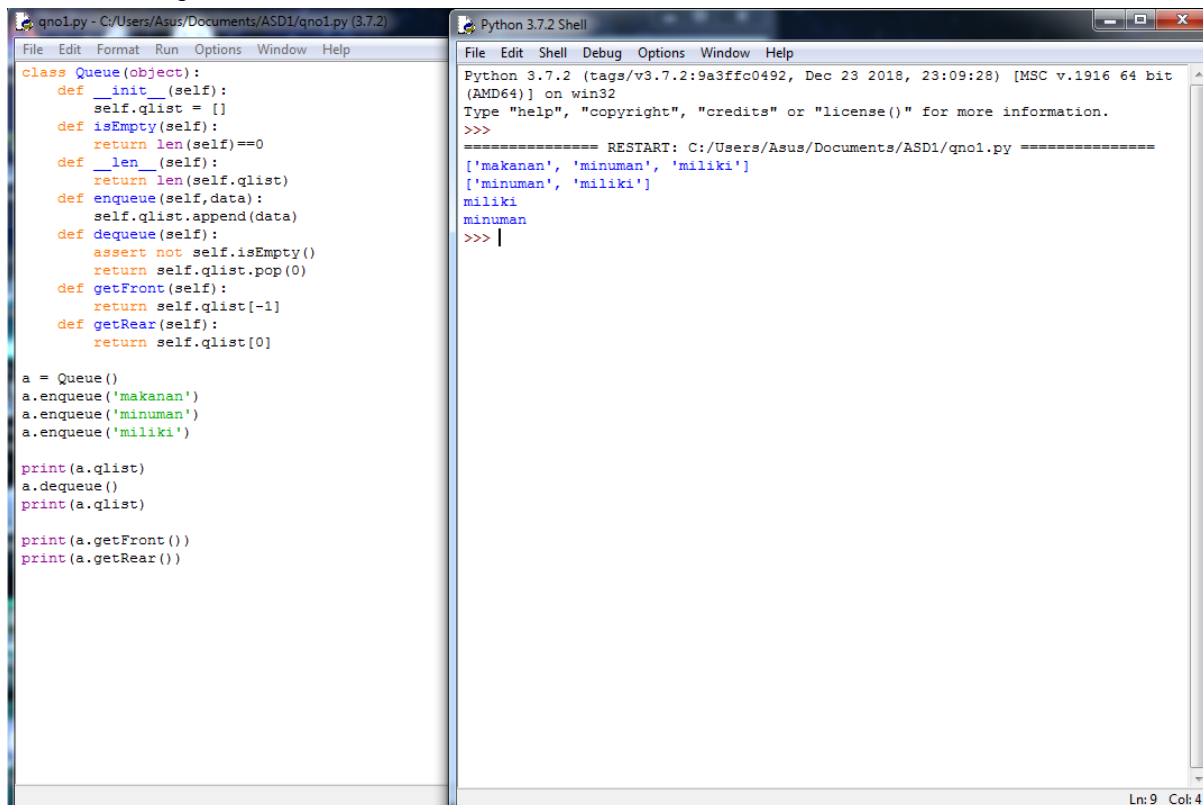
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Modul 8

Nomer 4 Queue



The screenshot displays a Python IDE with two windows. The left window, titled 'qno1.py - C:/Users/Asus/Documents/ASD1/qno1.py (3.7.2)', contains the following code:

```
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('makanan')
a.enqueue('minuman')
a.enqueue('miliki')

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

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

The right window, titled 'Python 3.7.2 Shell', shows the output of the program after a restart:

```
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: C:/Users/Asus/Documents/ASD1/qno1.py =====
['makanan', 'minuman', 'miliki']
['minuman', 'miliki']
miliki
minuman
>>> |
```

The status bar at the bottom right indicates 'Ln: 9 Col: 4'.

Priority Queue

The image shows a Python IDE with two windows. The left window, titled 'pqno2.py - C:/Users/Asus/Documents/ASD1/pqno2.py (3.7.2)', contains the following code:

```
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('makanan', 5)
a.enqueue('minuman', 1)
a.enqueue('miliki', 2)

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

The right window, titled 'Python 3.7.2 Shell', shows the output of the program:

```
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: C:/Users/Asus/Documents/ASD1/pqno2.py =====
>>> [(1, 'minuman'), (2, 'miliki'), (5, 'makanan')]
>>> [(1, 'minuman'), (2, 'miliki')]
>>> |
```

Ln: 7 Col: 4

Nomer 5

The image shows a Python IDE with two windows. The left window, titled 'qno3.py - C:/Users/Asus/Documents/ASD1/qno3.py (3.7.2)', contains the following code:

```
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('makanan', 5)
a.enqueue('minuman', 1)
a.enqueue('miliki', 2)

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

The right window, titled 'Python 3.7.2 Shell', shows the output of the program:

```
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: C:/Users/Asus/Documents/ASD1/qno3.py =====
>>> [(1, 'minuman'), (2, 'miliki'), (5, 'makanan')]
>>> [(1, 'minuman'), (2, 'miliki')]
>>> |
```

Ln: 7 Col: 4