

Python 3.11.11 | packaged by conda-forge | (main, Dec 5 2024, 14:06:23) [MSC v.1942 64 bit (AMD64)]  
Type "copyright", "credits" or "license()" for more information.

IPython 8.32.0 -- An enhanced Interactive Python. Type '?' for help.

```
In [1]: %runfile C:/Users/MEDUSA/Desktop/python/cfvhjk.py --wdir
Initial Queue: ['a', 'b', 'c', 'd']

Element at the front of the queue is .... a
Element at the rear of the queue is .... d

In [2]:
```

```
1 # Name: Mohamed Jafin S
2 # Reg.No: 212223020018
3
4 queue = []
5
6 queue.append('a')
7 queue.append('b')
8 queue.append('c')
9 queue.append('d')
10
11 print('Initial Queue: ' + str(queue))
12
13 front=queue[0]
14
15 print("\nElement at the front of the queue is .... ",front)
16
17 rear=queue[3]
18
19 print("\nElement at the rear of the queue is .... ",rear)
20
```

Python Console History

Update available Online Conda: spyder-runtime (Python 3.11.11) LSP: Python Line 20, Col 1 UTF-8 CRLF RW Mem 64%

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In [1]: %runfile C:/Users/MEDUSA/Desktop/python/cfvhjk.py --wdir  
Stack after elements are pushed:  
['a', 'b', 'c']  
Deleting the last element inserted:  
c  
Stack after elements are popped:  
['a', 'b']

In [2]:

```
1
2 # Name: Mohamed Jafin
3 # Reg.No: 212223820618
4
5 stack = []
6
7 stack.append('a')
8 stack.append('b')
9 stack.append('c')
10
11 print("Stack after elements are pushed:")
12 print(stack)
13
14 print("Deleting the last element inserted:")
15 print(stack.pop())
16
17 print("Stack after elements are popped:")
18 print(stack)
```

Python IDE interface showing a script and its execution output.

**File:** C:\Users\MEDUSA\Desktop\python\cfvhjk.py

**Script Content:**

```
1 # Name: Mohamed Jafin S
2 # Reg.No: 212223020018
3
4 stack = []
5 stack.append('a')
6 stack.append('b')
7 stack.append('c')
8
9 print('Initial stack: ' + str(stack))
10
11 for i in range(len(stack)):
12     print(i,end=" ")
13     print(stack[i])
```

**Console Output:**

```
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In [1]: %runfile C:/Users/MEDUSA/Desktop/python/cfvhjk.py --wdir
Initial stack: ['a', 'b', 'c']
0 a
1 b
2 c

In [2]:
```

**Status Bar:** Inline | Conda: spyder-runtime (Python 3.11.11) | LSP: Python | Line 13, Col 20 | UTF-8 | CRLF | RW | Mem 83%

Python IDE interface showing a script and its execution output.

**File:** C:\Users\MEDUSA\Desktop\python\cfvhjk.py

**Script Content (cfvhjk.py):**

```
1 ## Name: Mohamed Jafin S
2 ## Reg no:212223020018
3
4
5 queue = []
6
7 # Enqueue elements into the queue
8 queue.append("a")
9 queue.append("b")
10 queue.append("c")
11
12 # Display the initial queue
13 print("Initial queue:", queue)
14
15 # Display index and element
16 for i in range(len(queue)):
17     print(i, queue[i])
```

**Console Output:**

```
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In [1]: %runfile C:/Users/MEDUSA/Desktop/python/cfvhjk.py --wdir
Initial queue: ['a', 'b', 'c']
0 a
1 b
2 c

In [2]:
```

**Status Bar:** Update available | Inline | Conda: spyder-runtime (python 3.11.11) | LSP: Python | Line 17, Col 23 | UTF-8 | CRLF | RW | Mem 83%