## Queue

Queue - are container of data items/ comments that are waiting to be retrieved. Say you are receiving data from the website then you are manipulating the data and then writing the data to a file, so, there’re

There’re three types of Queues:

1. FIFO (first in first out)
2. LIFO (last in first out)
3. Priority

import queue

# this is a simple FIFO queue

q = queue.Queue()

# to put something in this queue

q.put()

# to get an item from queue

print(q.get())

# to check if queue is empty

print(q.empty())

**\_\_\_\_\_\_\_\_\_\_|FIFO |\_\_\_\_\_\_\_\_\_\_\_**

import queue

q = queue.Queue()

for i in range(5):

    q.put(i)

while not q.empty():

    print(q.get(), end = '   ')

# 0   1   2   3   4

**\_\_\_\_\_\_\_\_\_\_|LIFO |\_\_\_\_\_\_\_\_\_\_\_**

import queue

q = queue.LifoQueue()

for i in range(5):

    q.put(i)

while not q.empty():

    print(q.get(), end = '   ')

# 4   3   2   1   0

**\_\_\_\_\_\_\_\_\_\_|Priority Queue eg. 01|\_\_\_\_\_\_\_\_\_\_\_**

import queue

q = queue.PriorityQueue()

q.put(30)

q.put(5)

q.put(1)

q.put(2)

for i in range(q.qsize()):

    print(q.get(), end='  ')

# 1  2  5  30

**\_\_\_\_\_\_\_\_\_\_|Priority Queue eg. 02|\_\_\_\_\_\_\_\_\_\_\_**

import queue

q = queue.PriorityQueue()

q.put((1, 'Priority 1'))

q.put((3, 'Prioirty 3'))

q.put((4 ,'Priority 4'))

q.put((2 ,'Priority 2'))

for i in range(q.qsize()):

    print(q.get()[1], )

# Priority 1 Priority 2 Prioirty 3 Priority 4