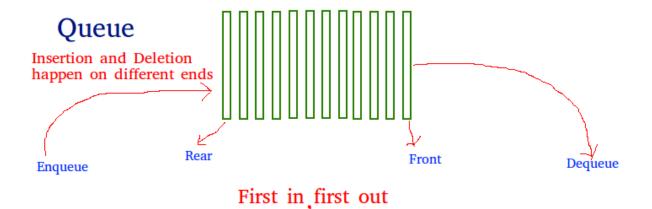
Python Lab 3

A Queue is a linear structure which follows a particular order in which the operations are performed. The order is First In First Out (FIFO). A good example of a queue is any queue of consumers for a resource where the consumer that came first is served first.



1 - We need to implement a python class that represents the queue data structure.

The class should have these operations:

- insert(value) => which inserts a new value at the rear of the queue
- pop() => which returns and removes a value from the front of the queue.
 We should return None and print a warning message if we tried to pop value from an empty queue
- is_empty() => which returns True or False to represent whether the queue is empty or not

- 2 We need to implement another queue class that has the same properties as previous but with the following changes:
 - A. The queue should have a name that is provided as a parameter of its constructor
 - B. The queue should have a size that is provided as a parameter of its constructor and if we tried to insert more values than its size raises a custom exception called **QueueOutOfRangeException**
 - C. The queue keeps track with all queues instances that has been created through this class and we can get any queue of them using its name
 - D. The queue class should have two class methods called (**save**, **load**) which saves all created queues instances to a file and load them when needed. (**bonus**)

- 3 Create a new client for weatherapi.com that has the following methods:
 - a- get current temperature(city)
 - b- get_temperature_after(city, days, hour=None)
 - c- get_lat_and_long(city)