

DAY-5

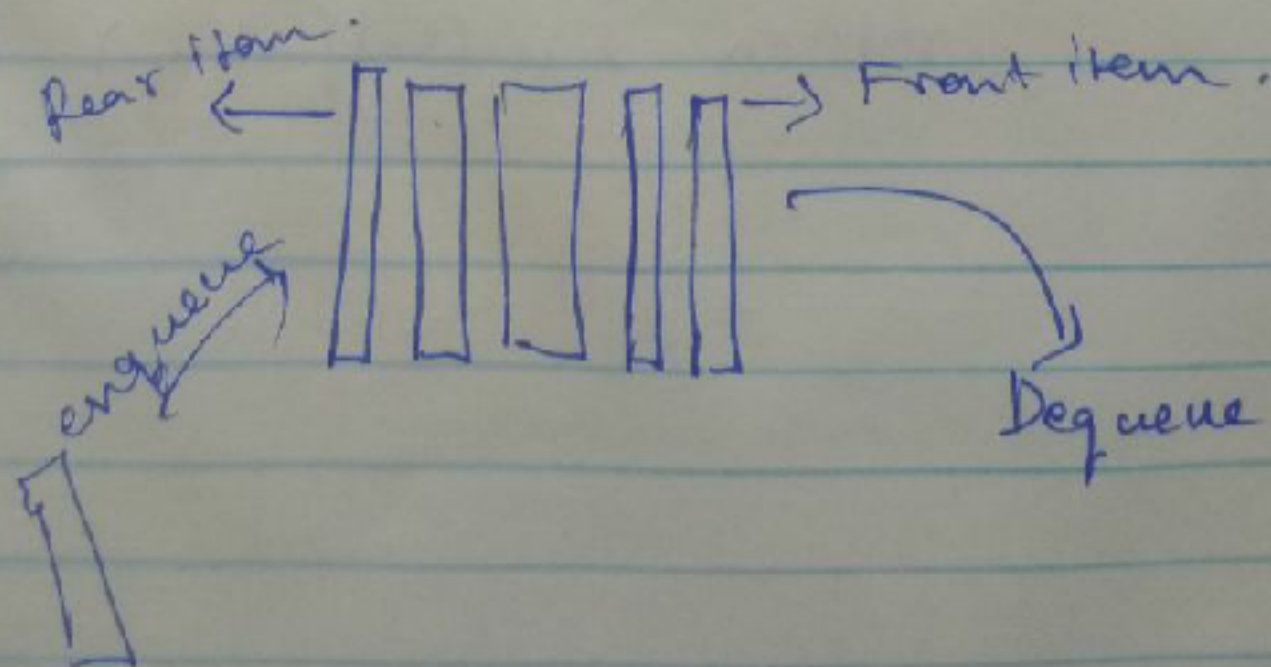
Queue - In Python

→ a linear data structure that follows the FIFO order (First In First Out).

* In stack, we remove the most recently added item,
⇒ here, In Queue, we remove the least recently added item.

Four Main Basic Operations:

- (i) Enqueue - adds item to queue
- (ii) Dequeue - removes item from queue.
- (iii) Front - to get the front item
- (iv) Rear - to get the last item.



Applications of Queue:-

In places where things to be done in a queue manner.

[First In First Out]

→ such as scheduling tasks and data transferring in a manner.

Implementing Queue:-

```
class Queue:
```

```
    def __init__(self):
```

```
        self.items = []
```

```
    def isEmpty(self):
```

```
        return self.items == []
```

```
    def enqueue(self, item):
```

```
        self.items.insert(0, item)
```

```
    def dequeue(self):
```

```
        return self.items.pop()
```

```
    def size(self):
```

```
        return len(self.items)
```