**DSA Mock test 3**

Implement a queue using a list in Python. Include the necessary methods such as enqueue, dequeue, and is Empty.

**Sol.**

class Queue:

def \_\_init\_\_(self):

self.queue = []

def enqueue(self, item):

self.queue.append(item)

def dequeue(self):

if self.is\_empty():

raise IndexError("Queue is empty. Cannot dequeue from an empty queue.")

return self.queue.pop(0)

def is\_empty(self):

return len(self.queue) == 0

queue = Queue()

queue.enqueue(1)

queue.enqueue(2)

queue.enqueue(3)

print(queue.dequeue()) # Output: 1

print(queue.dequeue()) # Output: 2

print(queue.is\_empty()) # Output: False