**DATA STRUCTURES ALOGRITHAM**

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**ASSIGNMENT #2**

**TASK #1 :**

QUEUE IMPLEMENTATION THROUGH NUMPY :

**CODE :**

#with numpy

import numpy as np

class queue:

def init(self):

self.list=np.arange(1,2,3,4,5)

def enqueue(self,data):

x= np.append(self.list,data)

return x

def dequeue(self):

y=np.delete(self.list,1)

return y

def rear(self):

return self.list[-1]

def front(self):

return self.list[0]

def isEmpty(self):

return (len(self.list)==0)

def size(self):

return (len(self.list)>5)

def length(self):

return len(self.list)

def main():

q=queue()

q.enqueue(20)

q.enqueue(45)

print(q)

q.deque()

print(q)