\* Data Structure Lab (DS2): - Practical Number - 123 (group-E) Name: - Franstubh Shrikant Kabra

Class: - Second Year Engineering
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Batch: 
Department: - Lomputer Department

College: - AISSMS'S IOIT. Title: - To simulate Pizza order system wing circular queue using array. Aim: - Write a C++ program to simulate system using circular queue using array. Distinctive:
• To study the concepts of circular queue.

• To parform operations on circular queue using arrays. Theory:
I lirewar gume is a linear data structure in which the operations are

performed based on FIFO principal and the last position is connected

back to the first position to make a circle. It is also called Ring

Buffer. for circular queue. The front and rear pointer 40 \ Irent

3
2 30 rear = (rear +1)% size. front = (gront +1)% size.

Algorithm: print ('Erler Muximum order');  $(((1==0)) \{ \{ (r==(max-1)) \} \} | (1) = = (r+1) \% max$ return o returno; ("Arder is full"); 1 = (1+1)% max

1 = (1+1)% max; H (" Arder Deleted") No more currently"); print ("The order sre:")

print (order [lemp])

temp = (temp +1) % max Step 9: main () int ch: Step 10: breate a meru drivel code using do while to operate on bove function Return 0 Program:-Putput:he Cizza order system simulated using circular queue operation.