## Lab-6 Circular Queu Implementation

\*) was to stimulate the working of a circular green of integers using an array Provide the following operations a) Insert b) Delete c) Display

The program should print appropriate messages for grew empty and grew overflow worditions

#include < stdio. h>
#include < ronio. h>
# define QUE\_SIZE 3

int item, pont=0, rear=-1, q [QUE\_SIZE], went=0.

void insetteur ()

if (rount == que\_SIZE)

printf (" queue overflow \n");

seturn;

y

rear = (rear + 1) % QUE\_SIZE;

q[rear] = item; rount ++;

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int deletefront ()
 if (rount ==0) return -1;
  item = q[front];
  front = [ front + 1] / QUE-SIZE;
  rount = rount - 1;
   return item;
  Noid display (1)
   int ist;
  if (went = = 0)
frint (" queue is empty \n"):
  f=front;
 prints ("Contents of queue (n");
for( i=1; i== rount; i++)
 print (".1.d \n", g[f]);
  f= (f+1) % QUE_SIZE;
```

void main () int choice; for (;;) mints ("In 1. Inserteur In 2. Deletefront In 3: display (My, Fait /n"); printy ("Enter the choice (n"); scarf (".1.d", a choice); switch ( choice) case 1: printf ("Enter the item to be inserted \n"); scanf ("./.d", sitem); insutrear(); break; rase 2: item = deletefront (); if ( item == -1) prints ("Queue is empty \n"); else printy (" Item deleted = %d \n", item): brak; case 3: display (); break;
default: exit (0);