Lab Program 24

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WAP to implement Circular queue :-
#include Loldio.h>
#include zfracess.h>
# define QUE_SIZE 3
int item, front=0, rear=-1, a[QUE_SIZE] count=0
 void insert rear ()
  if (sourt == OUE - SIZE)
   return. evertlooki);
 YEAR = (NOON+ ) % QUE - SIZE;
  oriear] = item.
  Count++;
int delete front ()
 if (count = = 0) return -1.
 item=alfront];
from= (front +1) % QUE_SIZE.
count = count -1:
 return item;
```

```
Void displayer ()
Eint ist;
 if (count == 0)
  Printf (" Queue is Empty In");
   return.
 f=front;
  Printf ("contents of the Queue que: \");
  for (i=1; ic=count; i++)
   Print([" o/d/10", a(+3);
   f = (++1) % QUE_SIZE;
 int main ()
¿ int choice;
 , for (; ;)
    Printf ("In 1: Insert rear In 2: De leterront In 3: Disport
    Printf ("Enter the choice \n").
    Scanf (11 % d', Achoice)
```

```
switch (choice)
    case 1: Printf("Enter the stem to be inserted in");
              scarf ("o/od", 2 item);
              insert rear ():
              break;
   case 2: item = deletefront ();
            if (item = = )
            Printf("Queue isempty ha");
            e | se
            Printfluthe Item Dekted is eld his; item)
 (ase 3 : display Q();
         break,
 default : exit (0);
return o;
```