```
3. Write a program to inmulate the working of queue of
   integer using an assay. Provide the following operation.
 a) Insert Rear
    Delote Front
     Display the contents of quene
 The program should print the appropriate mensyler for a queue
 empty and greene full condition.
Sol": # mitude
# include estaio. h>
# include < stallo, h>
# define QUF- SIZE 3
void insestreas ();
int deletefront ();
void displaya ();
    item, front = 0, rear = -1, 4 [100];
void main () {
     int choice = 1;
     while ( choice ! = 0) {
         Privity (" Eater your rehole (n');
        printf ("1. insert rear \n 2. delete frontln 3. display \n 4. entr \n");
        scanf (" d.d", & cholu);
        switch (chosa)
            Case 1: PMnty (" Enter the item to the inverted \n");
                   scarf (" o/od", & item);
                   insestrear (1;
                   break;
          care 2 i item = deletefront ();
                   4 ( item == -1) {
                                             Scanned with CamSca
```

```
Printf (" Queu Empty (n");
      3
      else {
            painty (" item deleted is o/od ("", item);
     Eyenh ;
     (are 3: displaya ();
     break;
    case 4: choice = 0;
    break;
     default; printy ("Irwalld imput \n");
2
void invertiear () {
      4 ( sear == QUE_ SIZE = 1) {
            Printy (" Queue overflow (n");
     3
     elge {
         rear = rear #1;
         9 E rear ] = item;
   3
int deleteprovot() {
      if (front > rear ) {
            front = 0;
           rear = -1;
           return - 1;
  return q & front ++ );
```

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```
void display q 1) {

int i;

if (front > sear ) {

Palrety ("Empty queue \n");

}

else {

Patrety ("Content of queue \n");

for (i = front; i <= sear; i++) {

Patrety ("Yed \n", q \sid );

}

}
```