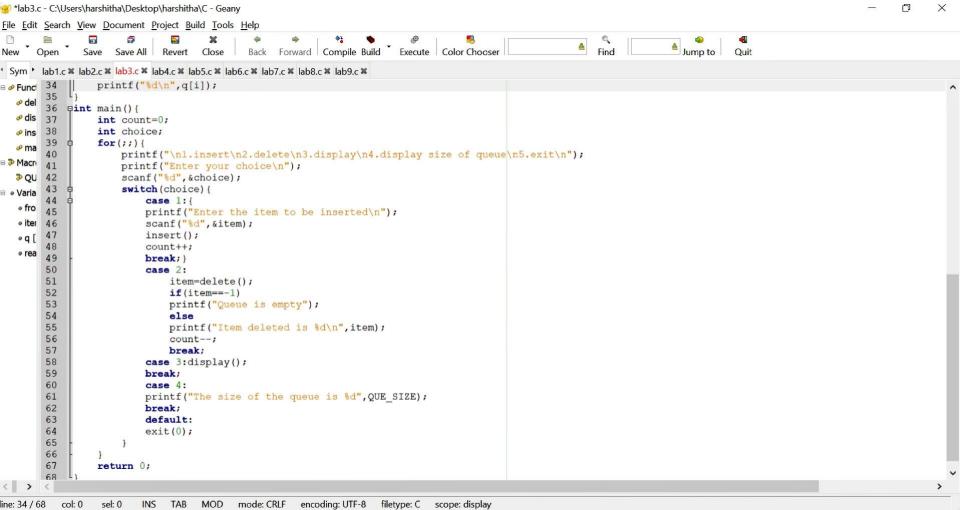
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👊 lab3.c - C:\Users\harshitha\Desktop\harshitha\C - Geanv
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       |ab1.c × |ab2.c × |ab3.c × |ab4.c × |ab5.c × |ab6.c × |ab7.c × |ab8.c × |ab9.c ×
            9/*WAP to simulate the working of a gueue of integers using an array. Provide the following
operations
  ø del
            a) Insert b) Delete c) Display
  ø dis
            The program should print appropriate messages for queue empty and queue overflow
            conditions*/
  ø ins
             #include<stdio.h>
             #includecess.h>
🗏 🦻 Macri
             #define QUE SIZE 3
             int item, front=0, rear=-1, q[10];
  ₽ QU
           Bvoid insert() {
 Varia
            pif (rear == OUE SIZE-1) {
  • fro
       12
                 printf("Queue Overflow\n");
  • iter
                  return:
  • q [
             rear=rear+1;
   • rea
        16
             g[rear]=item;
       17
            pint delete() {
       19
                 if (front>rear) {
       20
                      front=0;
        21
                      rear=-1;
       22
                      return -1;
       23
       24
                 return g[front++];
        25
            ₽void display() {
       27
                 int i;
       28
                 if (front>rear) {
        29
                      printf("Queue is empty\n");
       30
                      return;
        31
        32
                 printf("Contents of queue:\n");
       33
                 for(i=front;i<=rear;i++)</pre>
        34
                 printf("%d\n",q[i]);
       35
< >
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                                     mode: CRLF
                                                 encoding: UTF-8
                                                                filetype: C
                                                                          scope: main
```



C:\WINDOWS\SYSTEM32\cmd.exe	– 0 ×
insert delete display display size of queue	^
hearit inter your choice the size of the queue is 3	
insert delete display display size of queue	
exit inter your choice inter the item to be inserted	
insert delete s.display	
display size of queue exit enter your choice	
nter the item to be insertedinsert	
delete display display size of queue dexit cater your choice	
inter the item to be inserted insert	
insert delete	~

C:\WINDOWS\SYSTEM32\cmd.exe	- o ×
nter your choice	^
nter the item to be inserted	
insert.	
delete	
.display .display size of queue	
exit	
nter your choice	
nter the item to be inserted	
ueue Overflow	
insert	
.delete	
display	
display size of queue .exit	
nter your choice	
ica your choice	
ontents of queue:	
insert	
.delete	
.display	
display size of queue	
.exit nter your choice	
tem deleted is 1	
insert	
.delete .display	
display .display size of queue	

C:\WINDOWS\SYSTEM32\cmd.exe	-	ā.	X
			^
Item deleted is 1			4
l.insert			4
2.delete			
3.display			
display size of queue			4
exit			A
Enter your choice			
2			
Item deleted is 2			
l.insert			1
2.delete			1
3.display			
4.display size of queue			
5.exit			
Enter your choice			
2			
Item deleted is 3			
1.insert			1
2.delete			1
3.display			1
4.display size of queue			
5.exit			
Enter your choice			ı
3			ı
Queue is empty			ı
1.insert			
2.delete			4
3.display			1
4.display size of queue			
5.exit			
Enter your choice			1
2			1
Queue is empty			1
1.insert			1
2.delete			~
3.display	430	2.4	