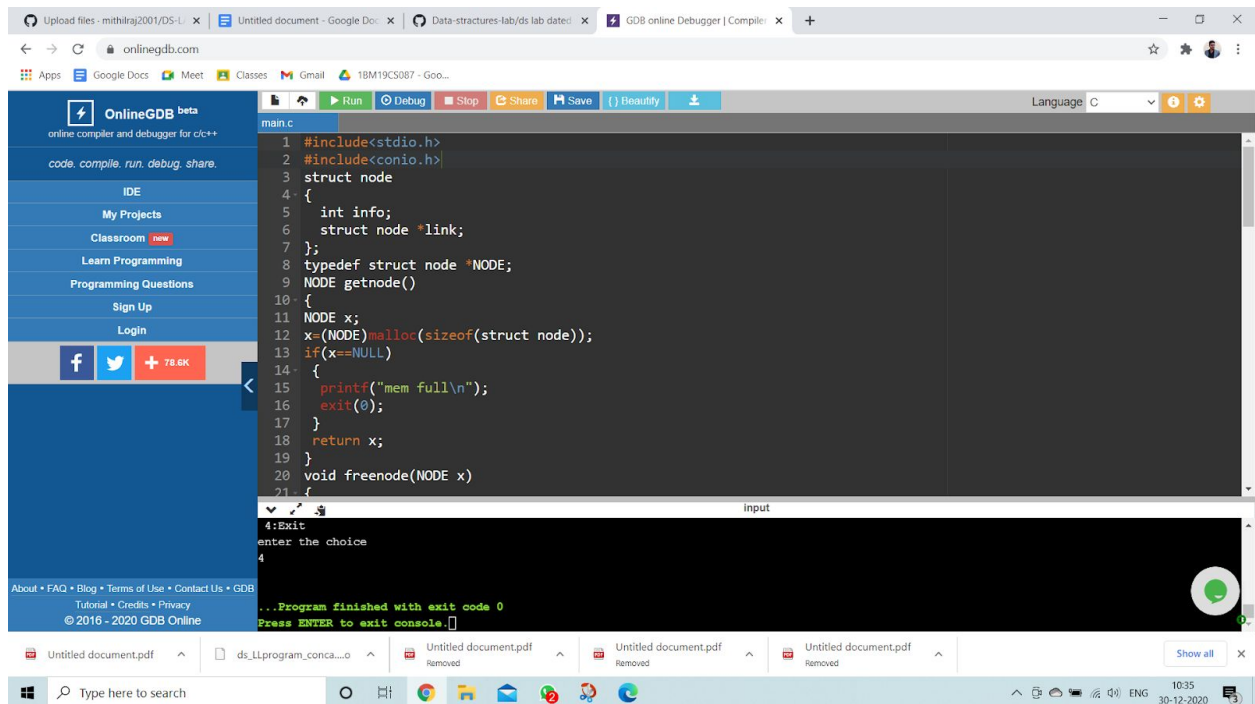


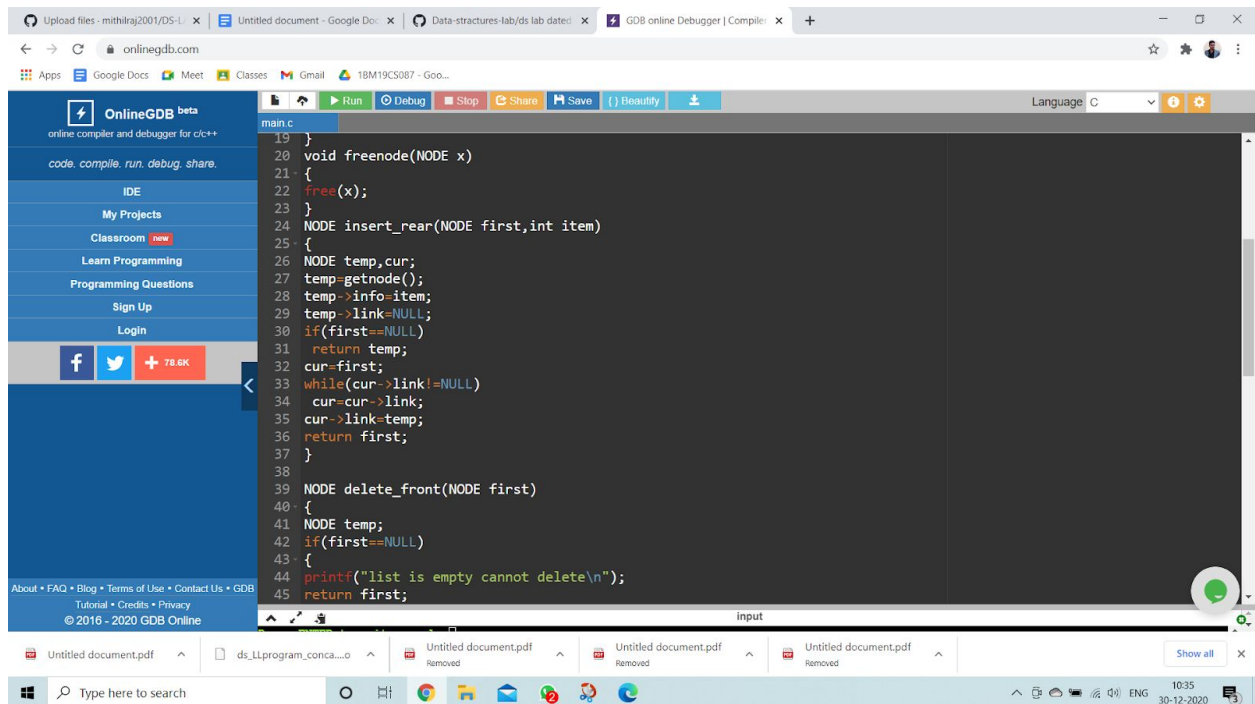
DS LAB PROGRAM 8 QUEUES USING LINKED LIST EXECUTION:-



The screenshot shows the OnlineGDB IDE interface. On the left is a sidebar with navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook and Twitter, and a '+ 78.6K' button. The main editor area displays a C program for a linked list queue. The code includes headers for stdio.h and conio.h, defines a node struct with an info field and a link pointer, and implements a getnode function that allocates a new node and returns it. The console output shows the program finished with exit code 0.

```
main.c
1 #include<stdio.h>
2 #include<conio.h>
3 struct node
4 {
5     int info;
6     struct node *link;
7 };
8 typedef struct node *NODE;
9 NODE getnode()
10 {
11     NODE x;
12     x=(NODE)malloc(sizeof(struct node));
13     if(x==NULL)
14     {
15         printf("mem full\n");
16         exit(0);
17     }
18     return x;
19 }
20 void freenode(NODE x)
21 {
```

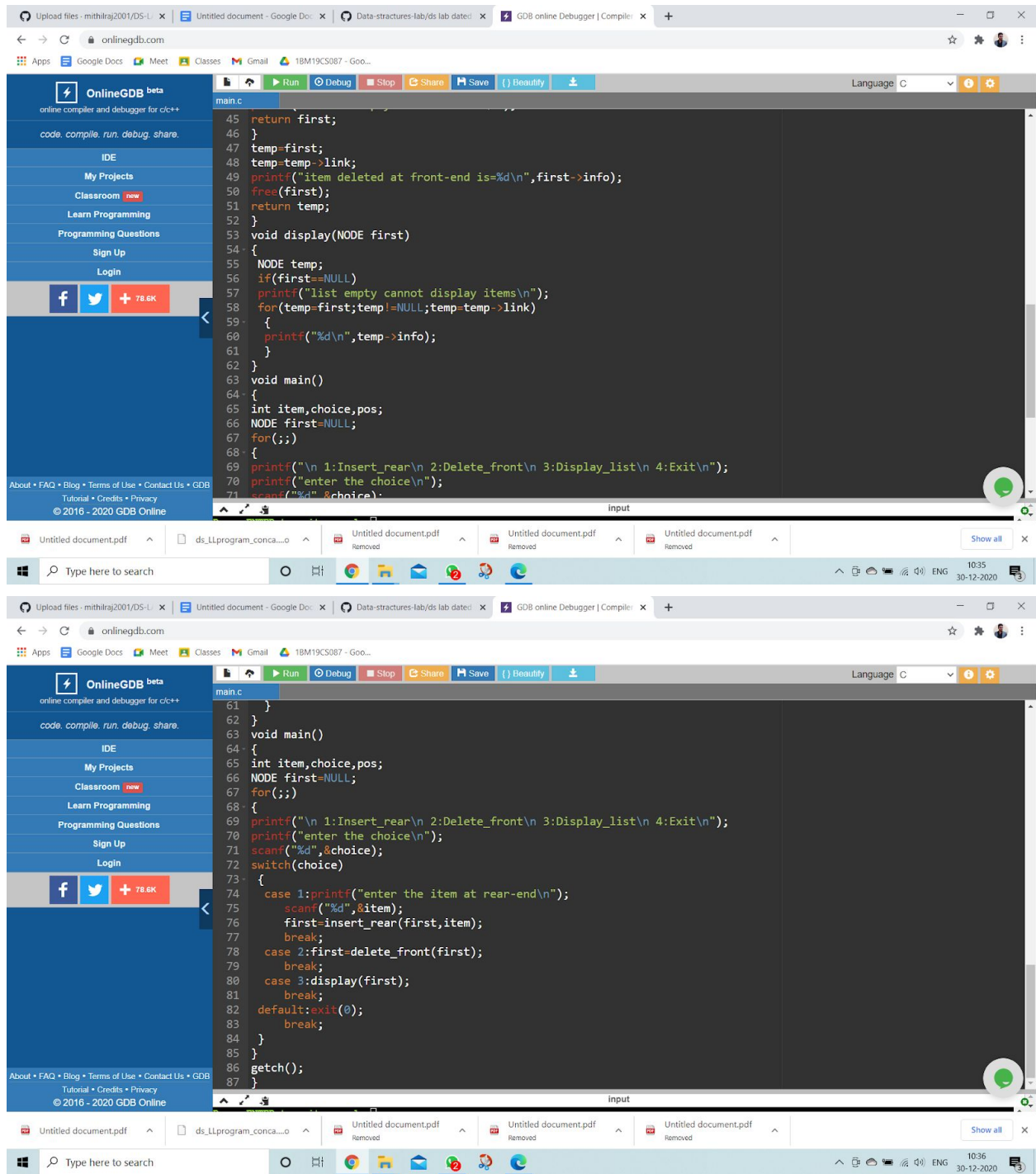
4:Exit
enter the choice
4
...Program finished with exit code 0
Press ENTER to exit console.



The screenshot shows the OnlineGDB IDE interface with the same sidebar as the previous image. The main editor area displays the continuation of the C program. It includes the insert_rear function, which takes a first node and an item, and the delete_front function, which removes the first node from the list. The console output shows the program finished with exit code 0.

```
main.c
19 }
20 void freenode(NODE x)
21 {
22     free(x);
23 }
24 NODE insert_rear(NODE first,int item)
25 {
26     NODE temp,cur;
27     temp=getnode();
28     temp->info=item;
29     temp->link=NULL;
30     if(first==NULL)
31         return temp;
32     cur=first;
33     while(cur->link!=NULL)
34         cur=cur->link;
35     cur->link=temp;
36     return first;
37 }
38
39 NODE delete_front(NODE first)
40 {
41     NODE temp;
42     if(first==NULL)
43     {
44         printf("list is empty cannot delete\n");
45         return first;
46     }
```

input



OUTPUT:-

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main.c
61 }
62 }
63 void main()
64 {
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice
1
enter the item at rear-end
10
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice
1
enter the item at rear-end
20
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice
1
enter the item at rear-end

input

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main.c
61 }
62 }
63 void main()
64 {
enter the item at rear-end
30
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice
3
10
20
30
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice
2
item deleted at front-end is=10
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit

input

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main.c
61 }
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3:Display_list
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1
enter the item at rear-end
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2:Delete_front
3:Display_list
4:Exit
enter the choice
3
20
30
40
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice

input

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