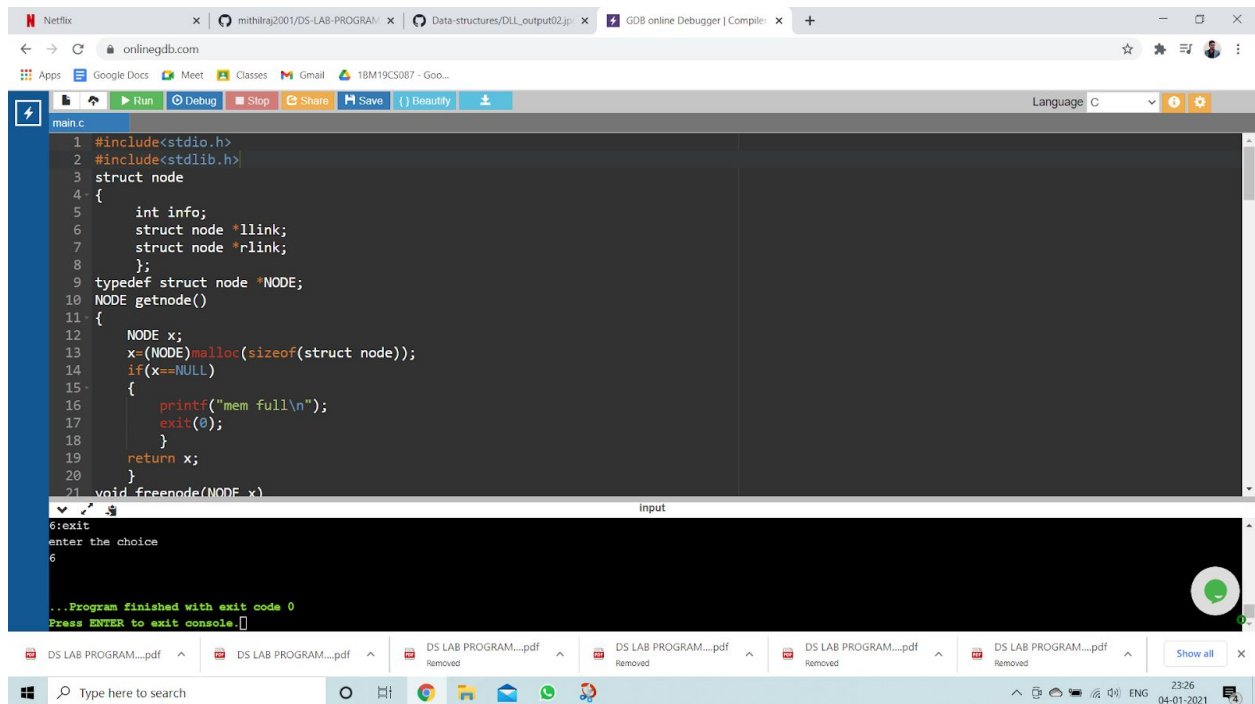


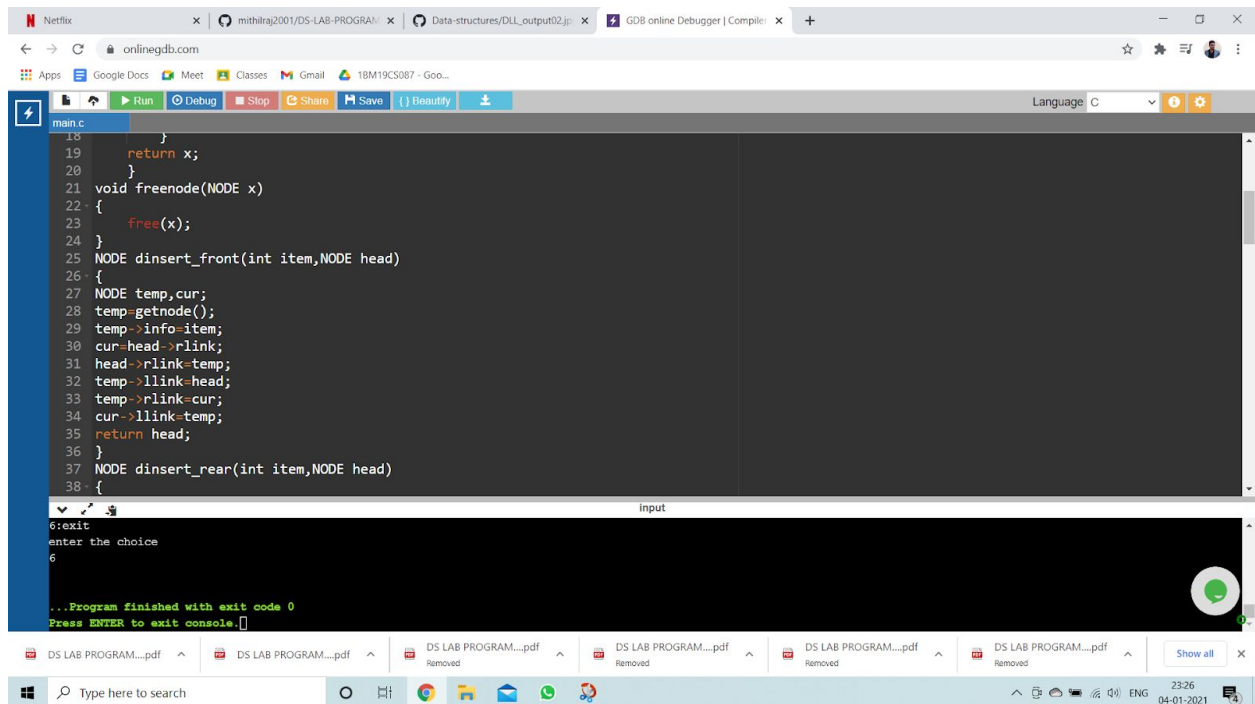
## DS LAB PROGRAM 9

### EXECUTION:-



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

6:exit  
enter the choice  
6  
...Program finished with exit code 0  
Press ENTER to exit console.



```
main.c
18 }
19 return x;
20 }
21 void freenode(NODE x)
22 {
23     free(x);
24 }
25 NODE dinsert_front(int item,NODE head)
26 {
27     NODE temp,cur;
28     temp=getnode();
29     temp->info=item;
30     cur=head->rlink;
31     head->rlink=temp;
32     temp->rlink=head;
33     temp->rlink=cur;
34     cur->llink=temp;
35     return head;
36 }
37 NODE dinsert_rear(int item,NODE head)
38 {
```

6:exit  
enter the choice  
6  
...Program finished with exit code 0  
Press ENTER to exit console.



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main.c

```
81 void display(NODE head)
82 {
83     NODE temp;
84     if(head->rlink==head)
85     {
86         printf("dq empty\n");
87         return;
88     }
89     printf("contents of dq\n");
90     temp=head->rlink;
91     while(temp!=head)
92     {
93         printf("%d\n",temp->info);
94         temp=temp->rlink;
95     }
96     printf("\n");
97 }
98 void main()
99 {
100     NODE head,last;
101     int item_choice;
```

input

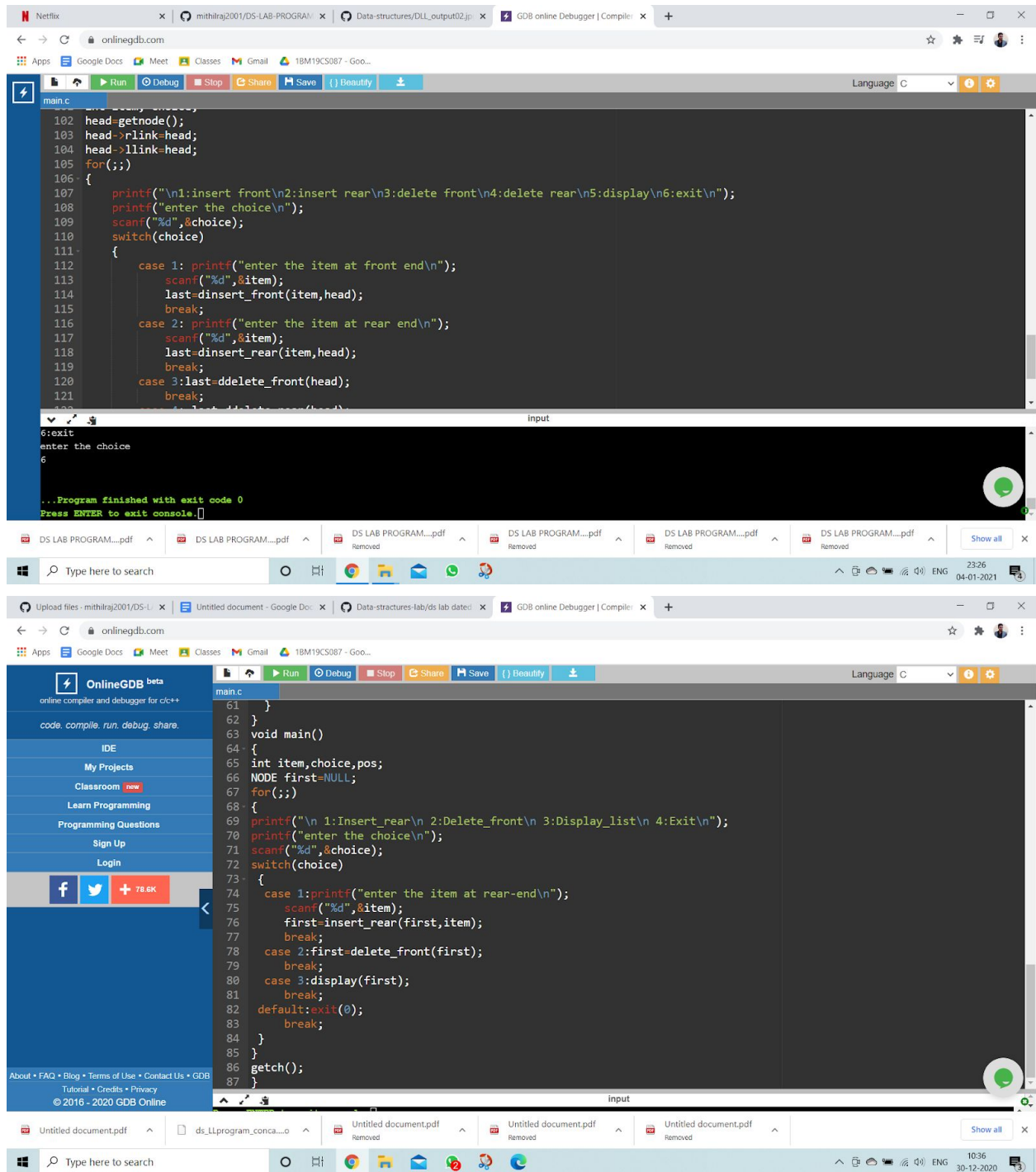
```
6:exit
enter the choice
6

...Program finished with exit code 0
Press ENTER to exit console.
```

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OUTPUT:-

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main.c

```
110 switch(choice)
111 {
112     case 1: printf("enter the item at front end\n");
113             scanf("%d",&item);
```

input

```
1:insert front
2:insert rear
3:delete front
4:delete rear
5:display
6:exit
enter the choice
1
enter the item at front end
10

1:insert front
2:insert rear
3:delete front
4:delete rear
5:display
6:exit
enter the choice
1
enter the item at front end
20

1:insert front
2:insert rear
```

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main.c

```
110 switch(choice)
111 {
112     case 1: printf("enter the item at front end\n");
113             scanf("%d",&item);
```

input

```
3:delete front
4:delete rear
5:display
6:exit
enter the choice
1
enter the item at front end
30

1:insert front
2:insert rear
3:delete front
4:delete rear
5:display
6:exit
enter the choice
5
contents of dq
30
20
10

1:insert front
2:insert rear
```

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main.c

```
110 switch(choice)
111 {
112     case 1: printf("enter the item at front end\n");
113             scanf("%d",&item);
```

input

```
the node deleted is 30
1:insert front
2:insert rear
3:delete front
4:delete rear
5:display
6:exit
enter the choice
3
the node deleted is 20
1:insert front
2:insert rear
3:delete front
4:delete rear
5:display
6:exit
enter the choice
3
the node deleted is 10
1:insert front
2:insert rear
3:delete front
4:delete rear
5:display
6:exit
```

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main.c

```
110 switch(choice)
111 {
112     case 1: printf("enter the item at front end\n");
113             scanf("%d",&item);
```

input

```
enter the choice
3
the node deleted is 10
1:insert front
2:insert rear
3:delete front
4:delete rear
5:display
6:exit
enter the choice
3
dq empty
1:insert front
2:insert rear
3:delete front
4:delete rear
5:display
6:exit
enter the choice
6
...Program finished with exit code 0
Press ENTER to exit console.
```

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