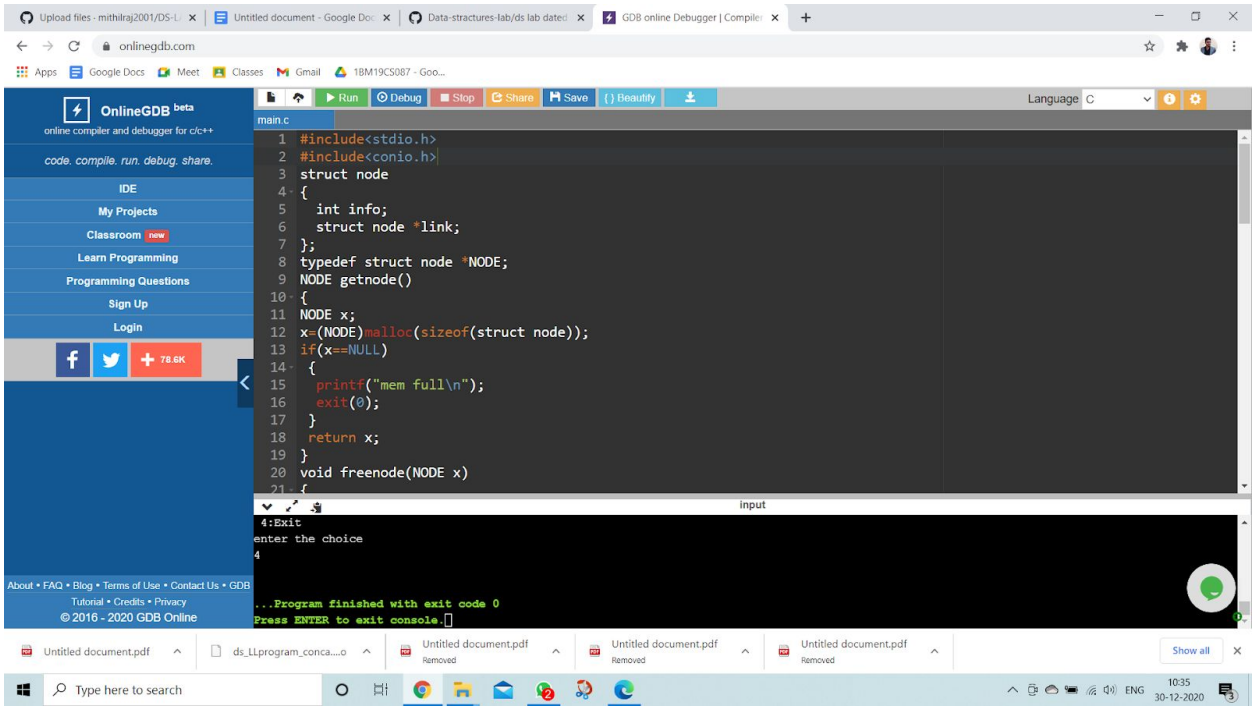
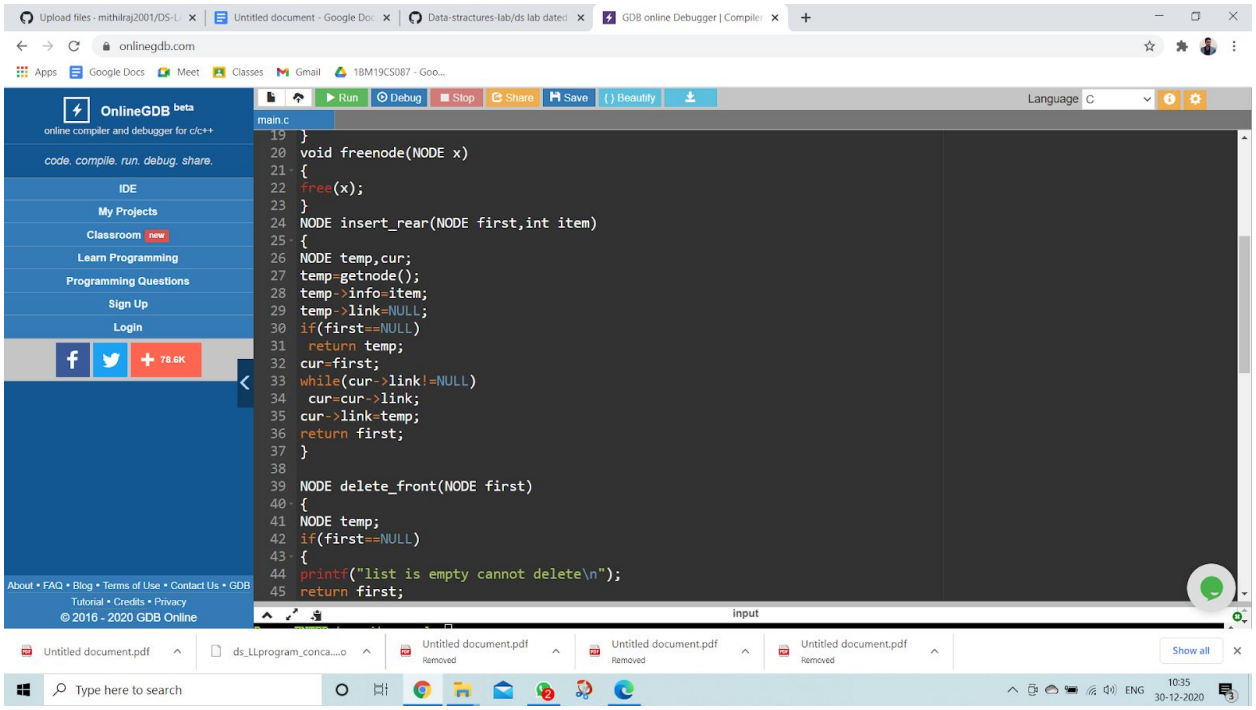
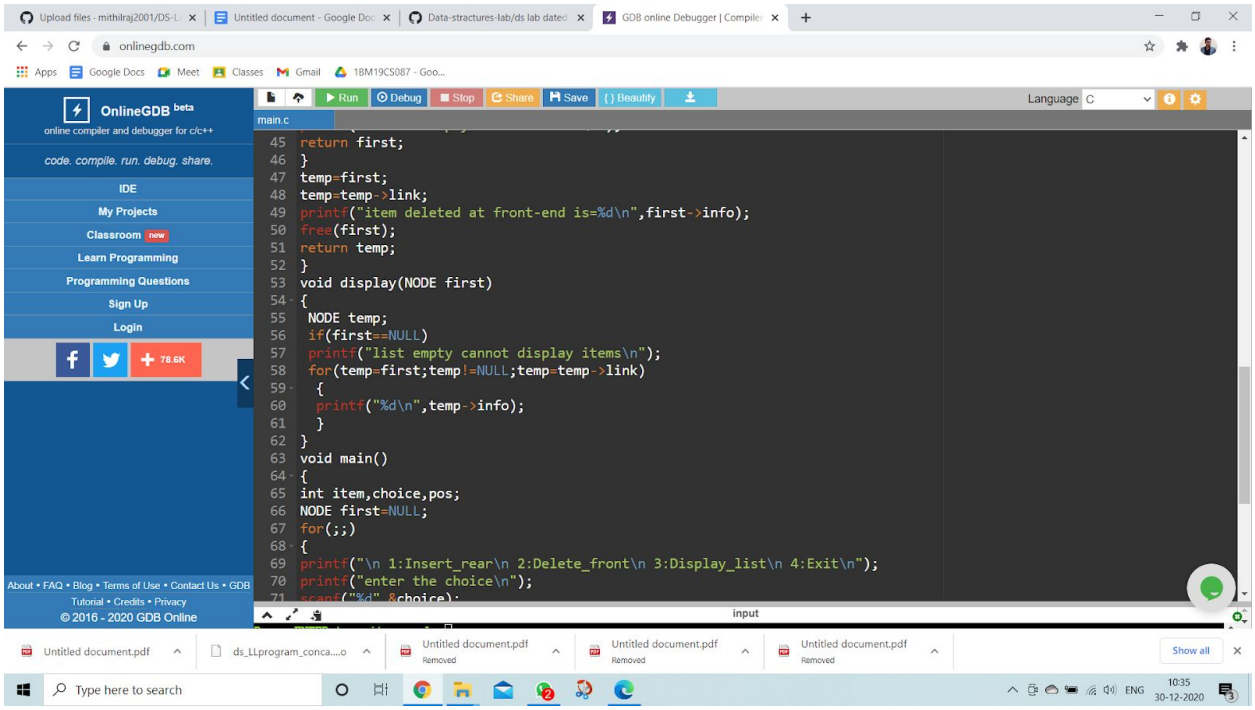
DS LAB PROGRAM 8 QUEUES USING LINKED LIST

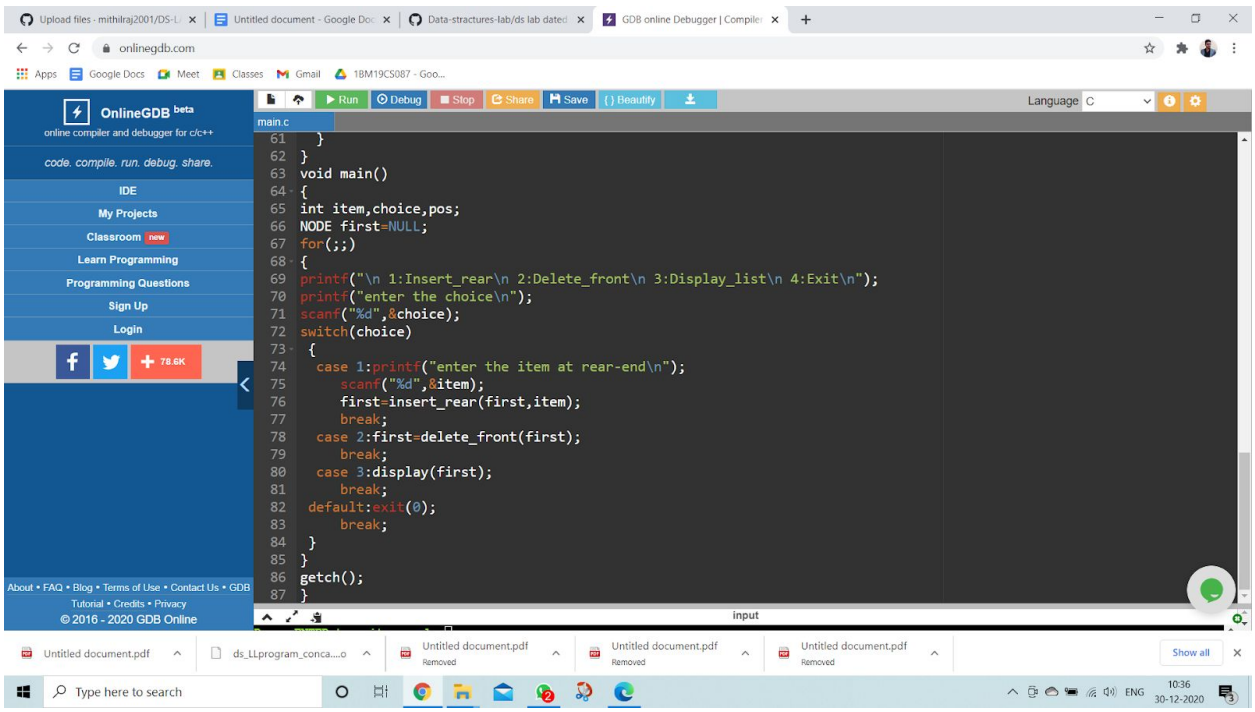
EXECUTION:-





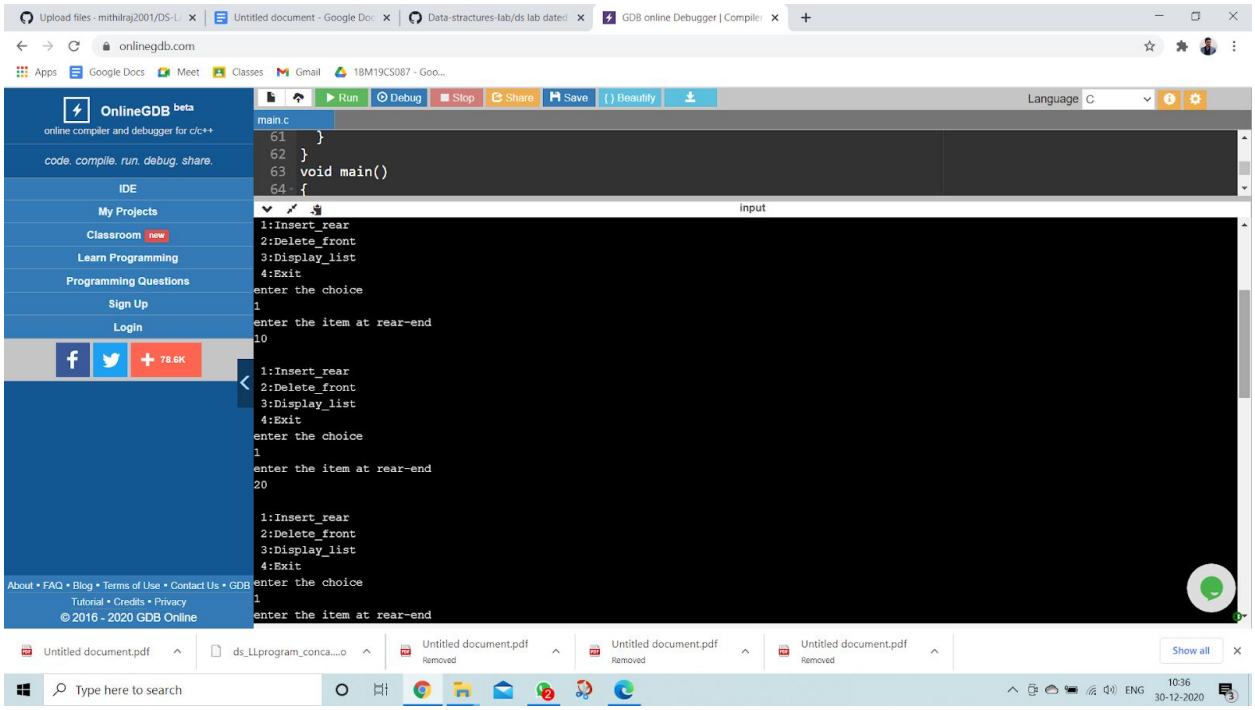


```
45 return first;
46 }
47 temp=first;
48 temp=temp->link;
49 printf("item deleted at front-end is=%d\n",first->info);
50 free(first);
51 return temp;
52 }
53 void display(NODE first)
54 {
55  NODE temp;
56  if(first==NULL)
57  printf("list empty cannot display items\n");
58  for(temp=first;temp!=NULL;temp=temp->link)
59   {
60   printf("%d\n",temp->info);
61   }
62 }
63 void main()
64 {
65 int item,choice,pos;
66 NODE first=NULL;
67 for(;;)
68 {
69 printf("\n 1:Insert_rear\n 2:Delete_front\n 3:Display_list\n 4:Exit\n");
70 printf("enter the choice\n");
71 scanf("%d",&choice);
```



```
61   }
62 }
63 void main()
64 {
65 int item,choice,pos;
66 NODE first=NULL;
67 for(;;)
68 {
69 printf("\n 1:Insert_rear\n 2:Delete_front\n 3:Display_list\n 4:Exit\n");
70 printf("enter the choice\n");
71 scanf("%d",&choice);
72 switch(choice)
73  {
74   case 1:printf("enter the item at rear-end\n");
75      scanf("%d",&item);
76      first=insert_rear(first,item);
77      break;
78   case 2:first=delete_front(first);
79      break;
80   case 3:display(first);
81      break;
82  default:exit(0);
83      break;
84  }
85 }
86 getch();
87 }
```

OUTPUT:-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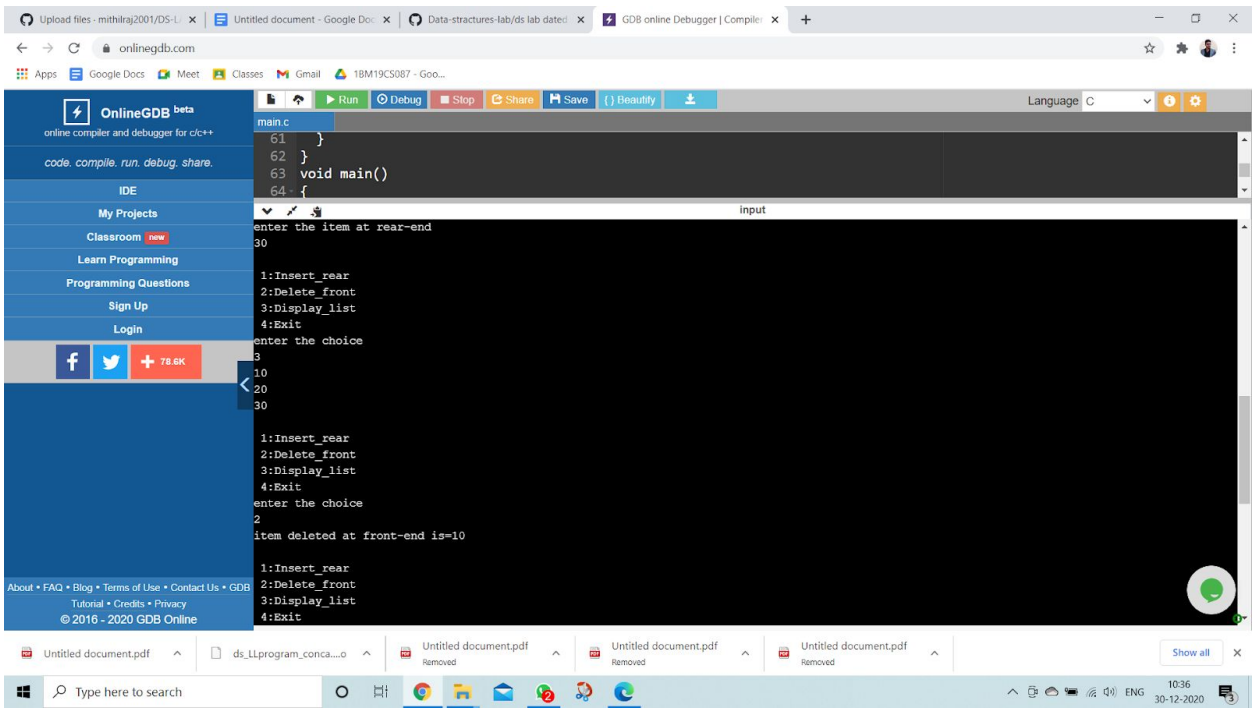
Run
Debug
Stop
Share
Save
{ } Beautify
Language C
main.c
61 }
62 }
63 void main()
64 {
input
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice
1
enter the item at rear-end
10
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice
1
enter the item at rear-end
20
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice
1
enter the item at rear-end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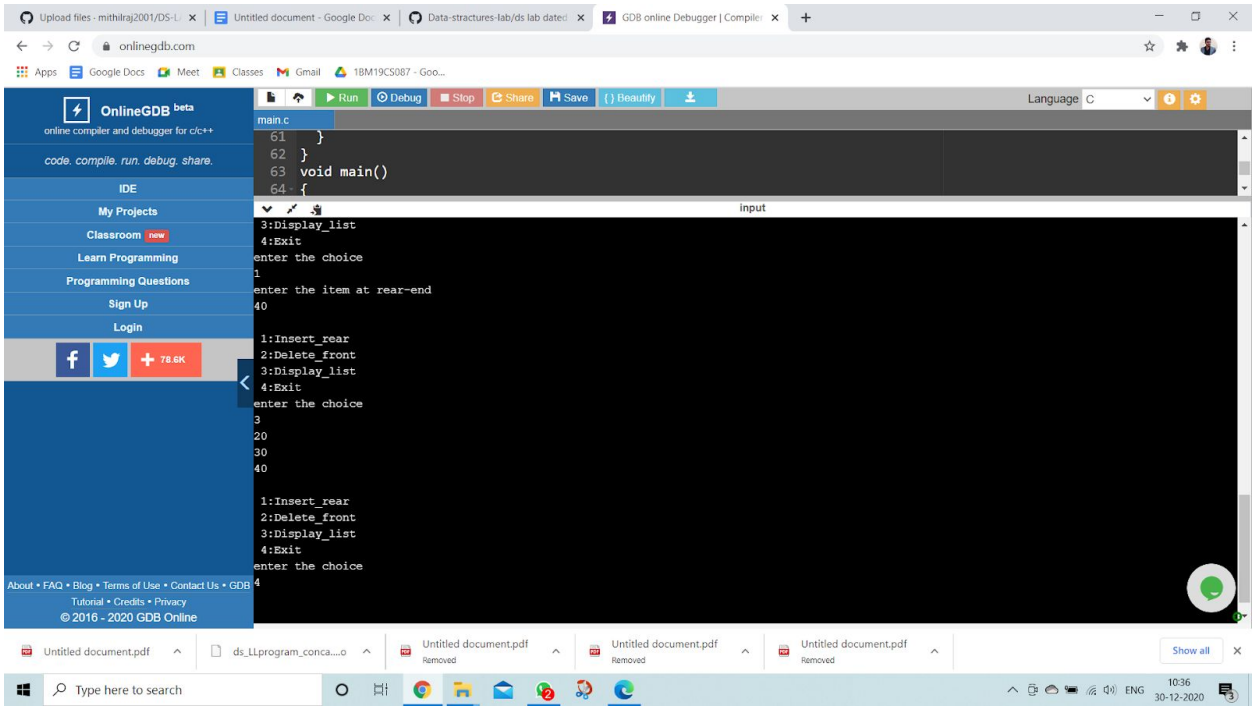
Run
Debug
Stop
Share
Save
{ } Beautify
Language C
main.c
61 }
62 }
63 void main()
64 {
input
enter the item at rear-end
30
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice
3
10
20
30
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit
enter the choice
2
item deleted at front-end is=10
1:Insert_rear
2:Delete_front
3:Display_list
4:Exit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Run
Debug
Stop
Share
Save
{ } Beautify
Language C
main.c
61 }
62 }
63 void main()
64 {
input
3:Display_list
4:Exit
enter the choice
1
enter the item at rear-end
40
1:Insert_rear
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
4
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