```
aryPdf C V
```

```
main.c
  1
      #include<stdio.h>
  2
      # define MAX 5
                                     I
  3
       int cqueue_arr[MAX];
  4
       int front = -1:
  5
       int rear = -1;
       void insert(int item)
  6
  7
       {
       if((front == 0 && rear == MAX-1) || (front == rear+1))
  8
  9
       printf("Queue Overflow \n");
  10
  11
       return;
  12
       }
       if(front == -1)
  13
  14
       {
       front = 0;
  15
  16
       rear = 0;
  17
        7
   18
        else
   19
        1
        if(rear == MAX-1)
   20
   21
       rear = 0;
   22
        else
   23
        rear = rear+1;
   24
        7
   25
        cqueue_arr[rear] = item ;
    26
         }
    27
         void deletion()
    28
```





1



















```
erPrimaryPdf#main.c
     Google classroom LinkedIn Facebook O YouTube Music
ILID
                                                                    Githuk
rimaryPdf C v 🕥
                                                          Run >
   main.c
     29
           if(front == -1)
     30
           {
                                         I
     31
           printf("Queue Underflow\n");
     32
           return :
     33
           }
           printf("Element deleted from queue is : %d\n",cqueue_arr
     34
           [front]);
           if(front == rear)
     35
     36
           {
           front = -1;
     37
     38
           rear=-1;
     39
           }
      40
           else
      41
           {
           if(front == MAX-1)
      42
           front = 0;
      43
      44
           else
           front = front+1;
      45
      46
      47
           }
           void display()
      48
      49
            1
            int front_pos = front, rear_pos = rear;
      50
            if(front == -1)
       51
       52
            printf("Queue is empty\n");
       53
       54
            return;
            }
       55
```

```
main.c
       printf("Queue elements :\n");
 56
       if( front_pos <= rear_pos ) t</pre>
 57
       while(front_pos <= rear_pos)</pre>
 58
 59
       {
       printf("%d\n ",cqueue_arr[front_pos]);
 60
 61
       front_pos++;
  62
        }
  63
        else
  64
        {
        while(front_pos <= MAX-1)</pre>
  65
        {
  66
        printf("%d ",cqueue_arr[front_pos]);
  67
   68
        front_pos++;
   69
        }
   70
        front_pos = 0;
   71
        while(front_pos <= rear_pos)</pre>
         {
   72
         printf("%d\n ",cqueue_arr[front_pos]);
   73
         front_pos++;
   74
    75
         }
         }
    76
         printf("\n");
    77
    78
         }
    79
         int main()
    80
          int choice, item;
     81
     82
          do
     83
          {
```

















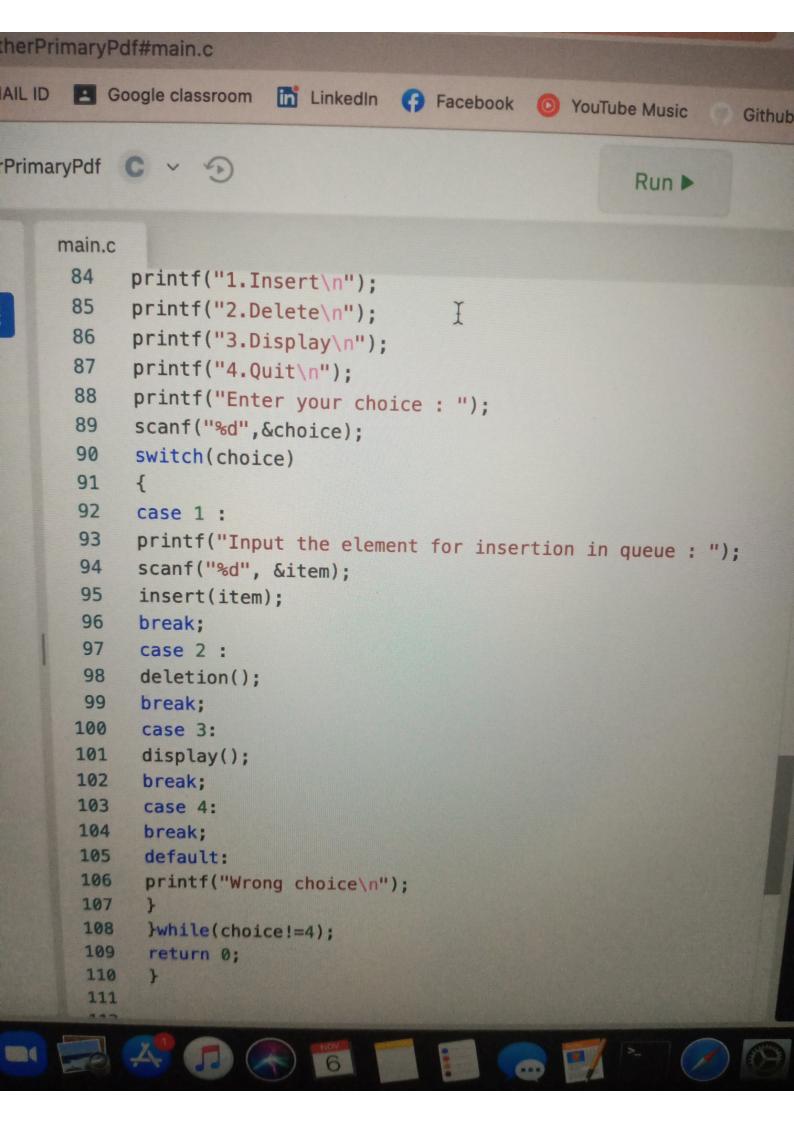












```
clang-7 -pthread -lm -o main main.c
./main
1.Insert
2.Delete
3.Display
4.Quit
Enter your choice: 1
Input the element for insertion in queue : 34
1. Insert
2.Delete
3. Display
4.Quit
 Enter your choice: 1
 Input the element for insertion in queue : 34
 1. Insert
 2.Delete
 3. Display
 4.Quit
 Enter your choice: 145
 Wrong choice
  1.Insert
  2.Delete
  3. Display
  4.Quit
                             I
  Enter your choice: 2
  Element deleted from queue is: 34
   1. Insert
   2.Delete
   3.Display
   4.Quit
```