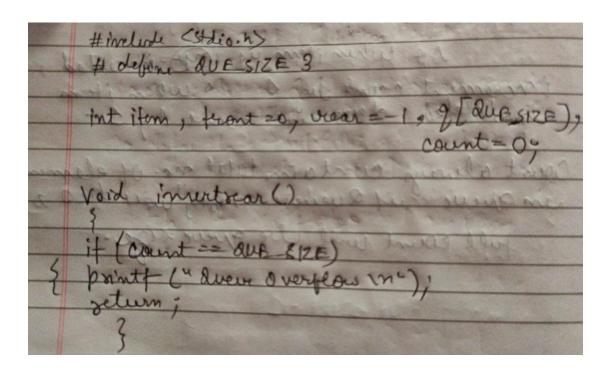
```
#include<stdio.h>
#include<stdlib.h>
#include<process.h>
#define que_size 5
int item,front=0,rear=-1,q[que_size],count=0;
void insertrear()
  if(count==que_size)
  {
    printf("queue overflow\n");
    return;
  }
  rear=(rear+1)%que_size;
  q[rear]=item;
  count++;
}
int deletefront()
{
  if(count==0) return -1;
  item = q[front];
  front=(front+1)%que_size;
  count-=1;
  return item;
}
void displayq()
```

```
{
  int i,f;
  if(count==0)
  {
    printf("queue is empty\n");
    return;
  f=front;
  printf("contents of queue \n");
  for(i=0;i<count;i++)</pre>
  {
    printf("%d\n",q[f]);
    f=(f+1)%que_size;
  }
}
void main()
  int choice;
  for(;;)
  {
    printf("\n1.Insert\ rear\n2.Delete\ front\n3.Display\n4.exit\n");
    printf("Enter the choice : ");
    scanf("%d",&choice);
    switch(choice)
    {
```

```
case 1:printf("Enter the item to be inserted : ");
          scanf("%d",&item);
          insertrear();
          break;
      case 2:item=deletefront();
          if(item==-1)
          printf("queue is empty\n");
          else
          printf("item deleted is %d \n",item);
          break;
      case 3:displayq();
          break;
      case 4: exit(0);
      default:printf("WRONG CHOICE!");
    }
  }
return 0;
}
```



rear = (rear +1) % QUE-SIZE , g [rear] =Hom; Country ! portet (" dueve empty") ombitt (" Content;) n interore ;

```
christ ();

for (;)

print f (n Enter 1 for Editat 2 for delete 3 for display);

print f (n Enter 1 for Editat 2 for delete 3 for display);

print f (n enter 1);

Scart (n, d', d chaice);

Scart (n, d', d', d then)

invertire ar ();

break;

car 1: item = delete front ();

it (item == );

print ( item delete m)

break;

print ( item delete m)

break;

cars 3: displayal ();

break;

cars 3: displayal ();

break;

cars 3: displayal ();

break;

cars 3: displayal ();
```

```
▼ File Edit Selection View Go Run Terminal Help

Output

Description

Output

Description

                                                                                                                                                                                                PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS D:\Prg data\C&C++\Stack implementation> cd "d:\Prg data\C&C++\Stack implementation\"; if ($?) { gcc cqueue.c -o cqueue } ; if ($?) { .\cqueue }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ∨ + □ m ∨ ×
D
                                                                                                                                                                                                   1.Insert rear
2.Delete front
3.Display
4.exit
Enter the choice : 1
Enter the item to be inserted : 1

∨ PRG DATA

                                                    > hh
> hjhh
> humjo
                                                                                                                                                                                                1.Insert rear
2.Delete front
3.Display
4.exit
Enter the choice : 1
Enter the item to be inserted : 2
                                                    > permutation_forg
> qp
> reverse
> sample
                                                                                                                                                                                                   1.Insert rear
2.Delete front
3.Display
4.exit
Enter the choice : 1
Enter the item to be inserted : 4
                                                    > sample2
> sanath
> sequence
> Stack imple
                                                                                                                                                                                                   1.Insert rear
2.Delete front
3.Display
4.exit
Enter the choice : 3
contents of queue
                                                        > obj
C cqueue.c
E cqueue.exe
C main.c
                                                > zzz
G 158B.cpp
                                                                                                                                                                                              1.Insert rear
2.Delete front
3.Display
4.exit
Enter the choice :
                               > OUTLINE
> JAVA PROJECTS
```