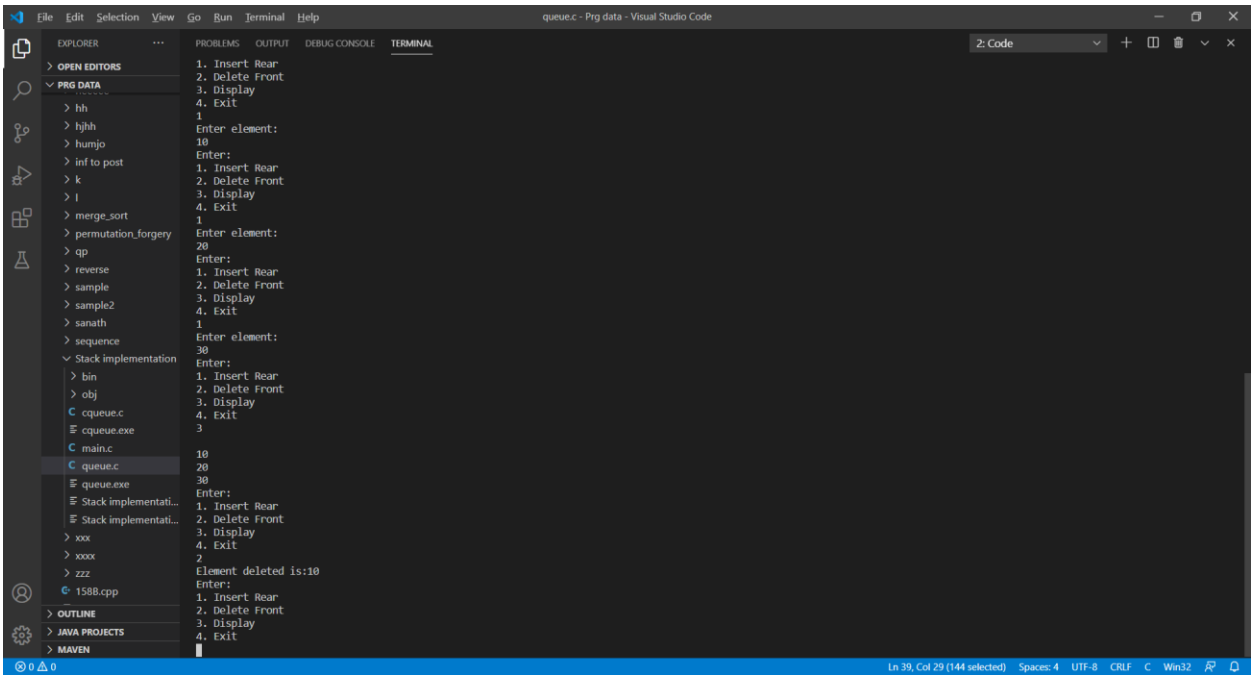
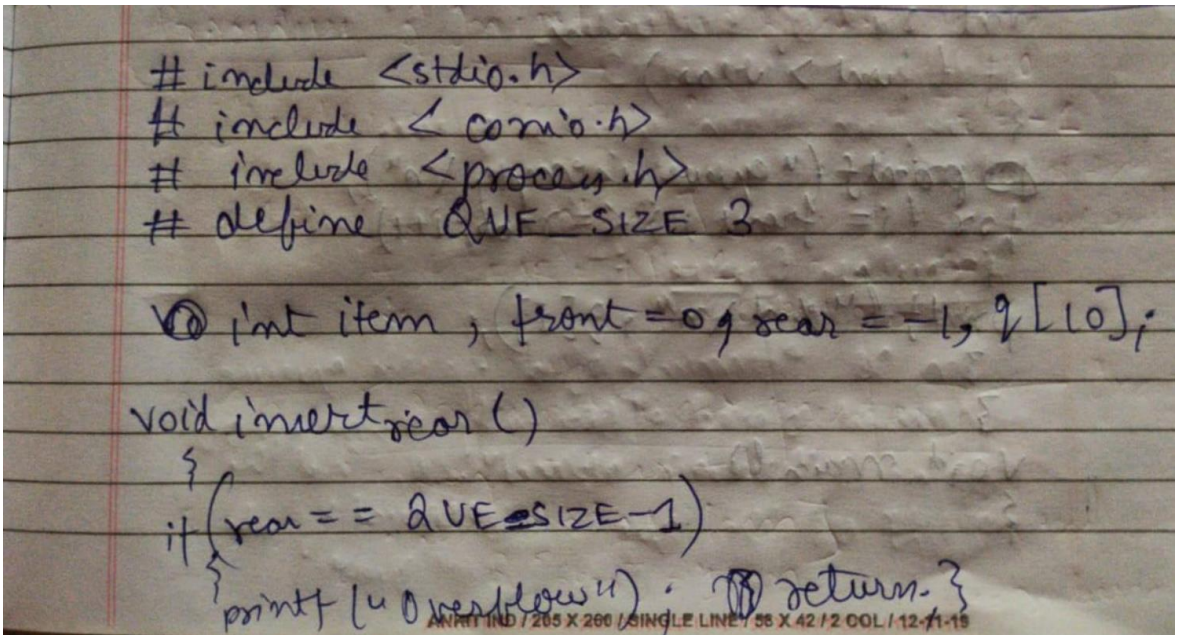
```
#include <stdio.h>
#include <stdlib.h>
#define qsize 5

int item, f=0, r=-1, q[10];

void insertrear(){
   if(r==qsize-1){
      printf("Queue overflow\n");
      return;
   }
   q[++r]=item;
}

int deletefront(){
   if(f>r){
      f=0;
      r=-1;
      return -1;
   }
return q[f++];
}

void display(){
   if (f>r){
```

```
        printf("Queue is empty\n");
        return;
    }
    printf("\n");
    for(int i=f;i<=r;i++){
        printf("%d\n",q[i]);
    }
}
int main(){
    int choice;
    for(;;){
        printf("Enter:\n1. Insert Rear\n2. Delete Front\n3. Display\n4. Exit\n");
        scanf("%d",&choice);
        switch (choice){
            case 1: printf("Enter element:\n");
            scanf("%d", &item);
            insertrear();
            break;
            case 2: item=deletefront();
            if(item==-1)
            printf("Queue empty\n");
            else
            printf("Element deleted is:%d\n",item);
            break;
            case 3: display();
```

```
            break;
            case 4: exit(0);
            default: printf("Wrong choice\n");
        }
    }
    return 0;
}
```





```
#include <stdio.h>
#include <conio.h>
#include <process.h>
#define QUE_SIZE 3

int item, front=0, rear=-1, q[10];

void insert_rear()
{
if(rear == QUE_SIZE-1)
{
printf("Overflow"); return;}
```

```
rear = rear + 1;
q[rear] = item;
}
int deleteFront()
{
if (front > rear)
  {
  front = 0;
  rear = -1;
  return = -1;
  }
  return q[front++];
}
void display()
{
int i;
if (front > rear)
{
printf("queue is empty \n");
for (i = front; i <= rear; i++)
  {
printf("%d \n", q[i]);
  }
 }
void main()
{
```

```
int choice;
clrscr();
for(;;)
{
printf("\n 1: Insert rear \n 2: deletefront
                                    --- 7;
printf("Enter choice \n");
scanf("%d", &choice);
switch(choice)
{
case 1: printf("Enter item");
        scanf("%d", &item);
        insertrear();
        break;
case 2: item = deletefront();
        if(item == -1)
        printf("queue is empty \n");
        else
        printf("item deleted = %d \n", item
        break;
case 3: display()
        break;
default : exit(0);
}
}
```