Queue Program Code:

```c
#include<stdio.h>
#include<stdlib.h>
#define max 50
int queue[max],rear=-1,front=-1;
void main(){
int ch,n,i;
while(1)
{
    printf("\nMenu\n");
    printf("Capacity of Queue is %d",max);
    printf("\n choose any operation\n 1.Enqueue\n 2.Dequeue\n 3.Display\n");
    printf("Enter your choice:");
    scanf("%d",&ch);
    switch(ch){
        case 1:if(rear == max - 1)
                printf("Queue Overflow n");
            else
              {
                if(front== - 1)
                front = 0;
                printf("Inset the element in queue : ");
                scanf("%d", &n);
                rear = rear + 1;
                queue[rear] = n;
```

```c
            }
        break;
        case 2:if(front == - 1 || front > rear)
                {
                    printf("Queue Underflow n");
                    return;
                }
            else
                {
                    printf("Element deleted from queue is : %d\n",
queue[front]);
                    front = front + 1;
                }
        break;
        case 3:
            if(front == - 1)
                printf("Queue is empty n");
            else
                {
                    printf("Queue is : ",n);
                    for(i = front; i <= rear; i++)
                        printf("%d ", queue[i]);
                        printf("\n");
                }
    }
 }
}
```

Output:

```
C:\Users\dell\Desktop\Ronika\DS\queue.exe

Menu
Capacity of Queue is 50
 choose any operation
 1.Enqueue
 2.Dequeue
 3.Display
Enter your choice:1
Inset the element in queue : 1

Menu
Capacity of Queue is 50
 choose any operation
 1.Enqueue
 2.Dequeue
 3.Display
Enter your choice:1
Inset the element in queue : 2

Menu
Capacity of Queue is 50
 choose any operation
 1.Enqueue
 2.Dequeue
 3.Display
Enter your choice:3
Queue is : 1 2

Menu
Capacity of Queue is 50
 choose any operation
 1.Enqueue
 2.Dequeue
 3.Display
Enter your choice:2
Element deleted from queue is : 1

Menu
Capacity of Queue is 50
 choose any operation
 1.Enqueue
 2.Dequeue
 3.Display
Enter your choice:3
Queue is : 2

Menu
Capacity of Queue is 50
 choose any operation
 1.Enqueue
```

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