```
printf("Element at top of the stack: %d\n" ,peek());
printf("Elements: \n");
while(!isempty()) {
  int data = pop();
printf("%d\n",data);
printf("Stack full: %s\n" , isfull()?"true":"false");
printf("Stack empty: %s\n" , isempty()?"true":"false");
                                                                                            input
```

-stdin

```
input
Element at top of the stack: 15
Elements:
15
12
Stack full: false
Stack empty: true
 ..Program finished with exit code 0
Press ENTER to exit console.
```

```
## #include <stdio.h>

## #include <stdiib.h>
## #include <stdiib.h

## #include <sdiib.h

## #in
```

```
main.c

display();

break;

case 4:

exit(1);

default:

printf("Wrong choice \n");

43 }

44 }

45 }

46 void insert()

47 - {

in titem;

9 if(rear == MAX - 1)

50 printf("Queue Overflow \n");

else

52 - {

53 if(front == 1)

front = 0;

printf("Inset the element in queue : ");

55 scanf("%d", &item);

7 rear = rear + 1;

8 queue_array[rear] = item;

59 }

60 }

10 void delete()

62 - {

33 if(front == - 1 || front > rear)

64 - {

65 printf("Queue Underflow \n");

66 neturn:
```

```
69 {
70 printf("Element deleted from queue is : %d\n", queue_array[front]);
 72 }
 73 }
 74 void display()
 76 int i;
 77 if(front == - 1)
 78 printf("Queue is empty \n");
79 else
          ntf("Queue is : \n");
 82 for(i = front; i <= rear; i++)
83 printf("%d ", queue_array[i]);
84 printf("\n");</pre>
 86 }
87
```

input A × 3

```
▼ ₹ ¶

1.Insert element to queue

2.Delete element from queue
3.Display all elements of queue
4.Quit
Enter your choice : 1
Inset the element in queue : 3
1.Insert element to queue
2.Delete element from queue
3.Display all elements of queue
4.Quit
Enter your choice : 1
Inset the element in queue : 4
1.Insert element to queue
2.Delete element from queue
3.Display all elements of queue
4.Quit
Enter your choice : 3
Queue is :
3 4
1.Insert element to queue
2.Delete element from queue
3.Display all elements of queue
4.Quit
Enter your choice : 2
Element deleted from queue is: 3
1.Insert element to queue
2.Delete element from queue
3.Display all elements of queue
4.Quit
```