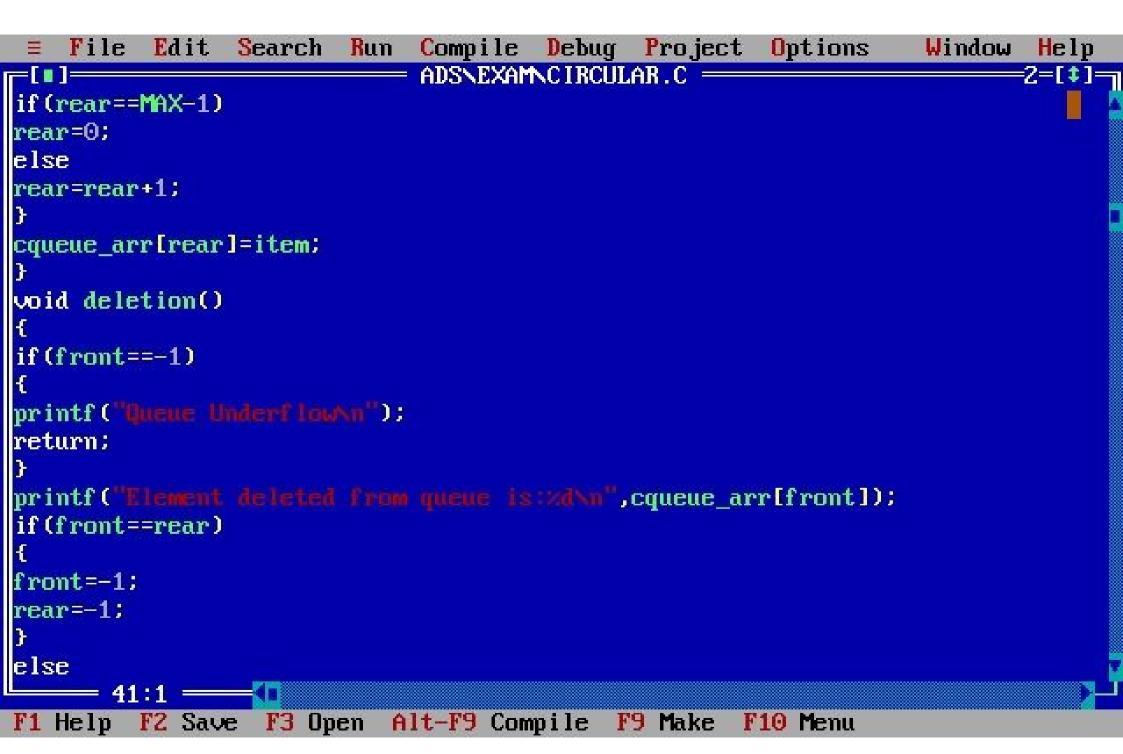
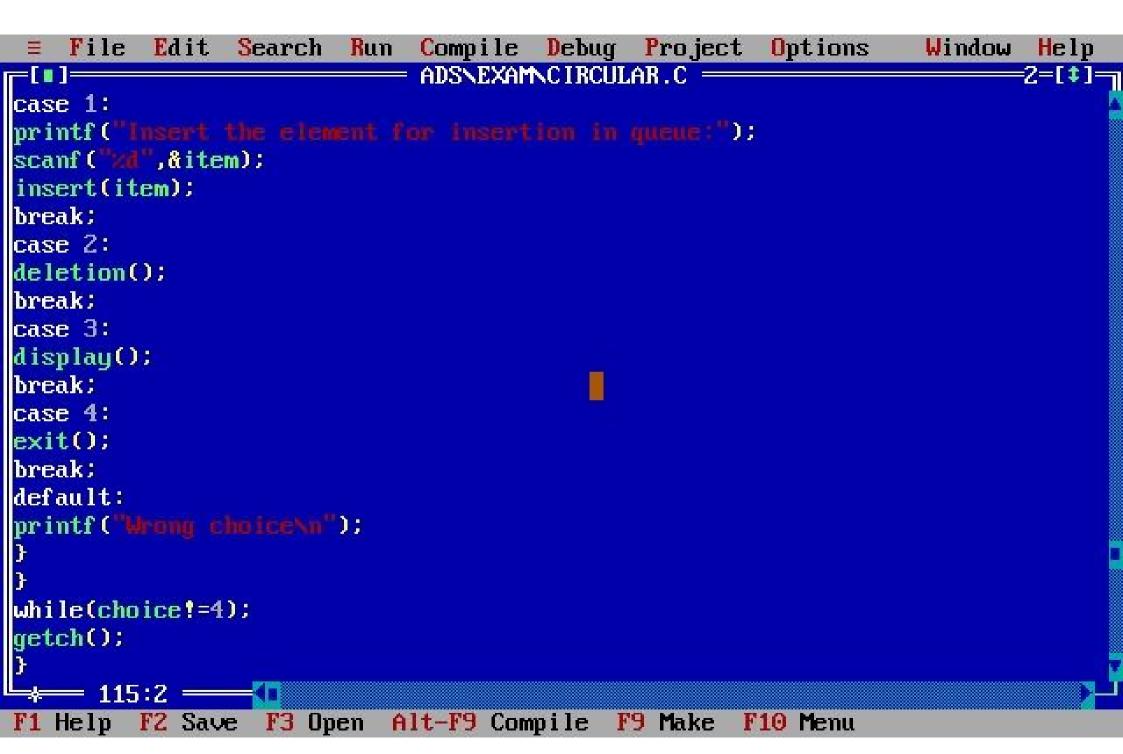
```
Options
    File
          Edit
                Search
                        Run
                             Compile
                                      Debug Project
                                                                  Window
                                                                           Help
                             ADS\EXAM\CIRCULAR.C =
                                                                         =2=[ $ 1=
#include<stdio.h>
#include<comio.h>
#define MAX 5
int cqueue arr[MAX];
int front=-1:
int rear=-1;
void insert(int item)
if((front==0&&rear==MAX-1)|| (front==rear+1))
printf("Queue Boerflown");
return:
if (front==-1)
front=0:
rear=0;
else
if(rear==MAX-1)
       1:1 _____(
F1 Help
         FZ Save
                     Open
                           Alt-F9 Compile F9 Make
                                                     F10 Menu
```



```
Options
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                        Run
                             Compile
                                     Debug Project
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                             ADS\EXAM\CIRCULAR.C
                                                                        =2=[$]=
else
if (front==MAX-1)
front=0;
le I se
front=front+1;
void display()
int front_pos=front,rear_pos=rear;
if (front==-1)
printf("Queue is empty\n");
return:
printf("Queue elements:");
if(front_pos<=rear_pos)
while(front_pos<=rear_pos)
rintf(""d",cqueue_arr[front_pos]);
 ♦ 61:1 ─
                          Alt-F9 Compile F9 Make
        FZ Save F3 Open
F1 Help
                                                    F10 Menu
```

```
Options
          Edit
                Search
                         Run
                              Compile
                                       Debug Project
                                                                    Window
                                                                            Help
                              ADSNEXAMNC IRCULAR.C
                                                                           -2=[‡]-
printf("zd\t",cqueue_arr[front_pos1);
front_pos++;
else
while(front_pos<=MAX-1)
printf("zd",cqueue_arr[front_pos1);
front_pos++;
front_pos=0;
while(front_pos<=rear_pos)
printf("zd",cqueue_arr[front_pos1);
front_pos++;
printf("\");
void main()
     = 81:2 <del>----</del>
                            Alt-F9 Compile F9 Make
                      Open
F1 Help
        FZ Save
                  F3
                                                      F10 Menu
```

```
Compile Debug Project Options
    File
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                              ADS\EXAM\CIRCULAR.C =
                                                                         -2=[‡]-
void main()
int choice.item;
clrscr():
do
printf("\n***Circular Queue***\n");
printf("L Insertan");
printf("2.lelete\n");
printf("3.Display\n");
printf("4.0mit\n");
printf("Enter your choice:");
scanf( achoice);
switch(choice)
case 1:
printf("Insert the element for insertion in queue:");
scanf ( .&item);
insert(item);
break:
case 2:
<u>└</u>┿── 100:2 ──
F1 Help
                     Open
         FZ Save
                  F3
                           Alt-F9 Compile F9 Make
                                                     F10 Menu
```

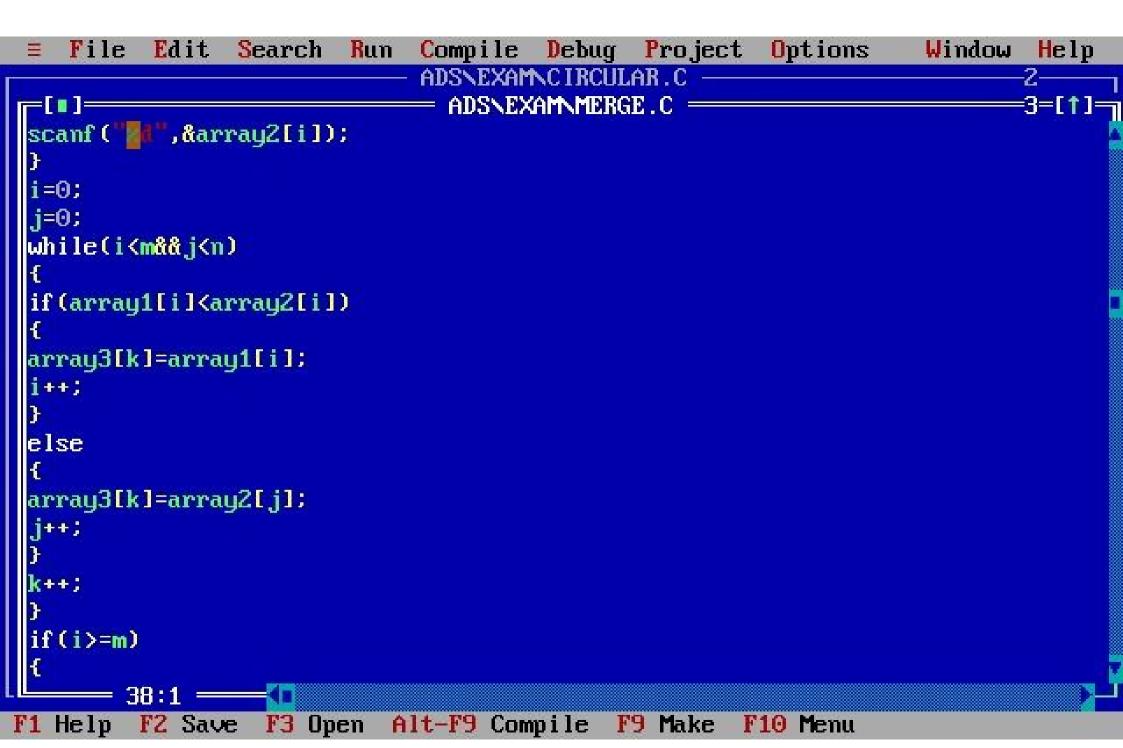


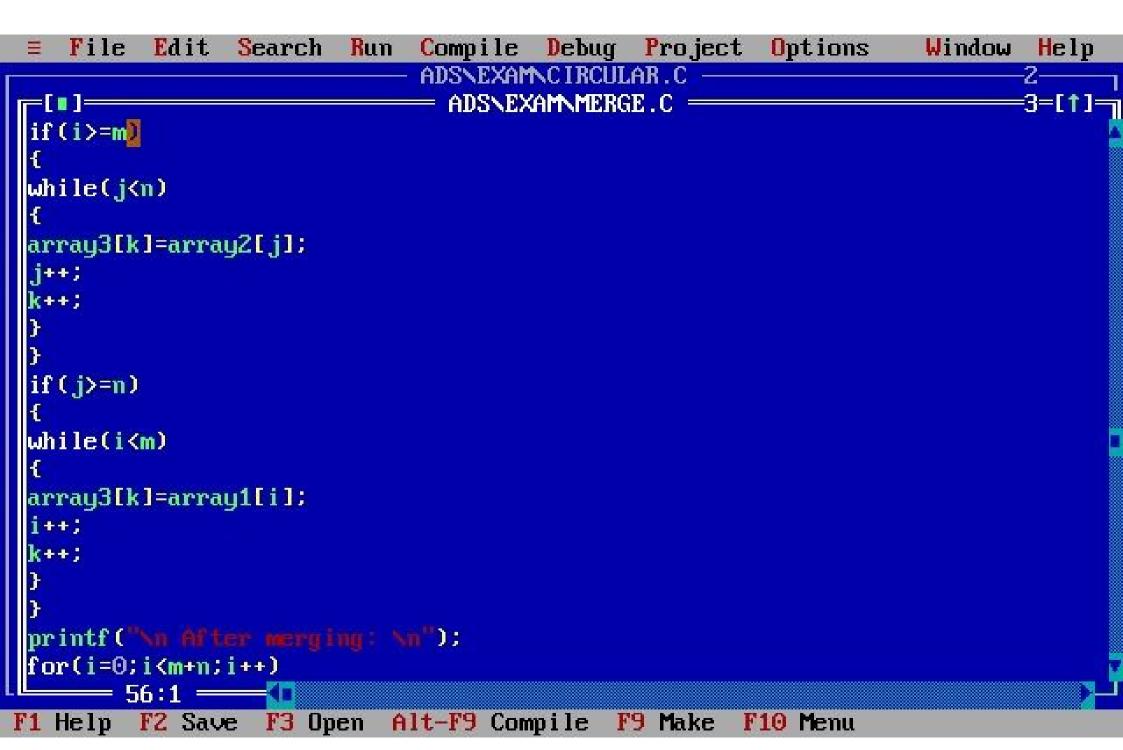
```
***Circular Queue***
1. Insert
2.Delete
3.Display
4.Quit
Enter your choice:1
Insert the element for insertion in queue:12
***Circular Queue***
1. Insert
2.Delete
3.Display
4.Quit
Enter your choice:3
Queue elements:12
***Circular Queue***
1. Insert
2.Delete
3.Display
4.Quit
Enter your choice:
```

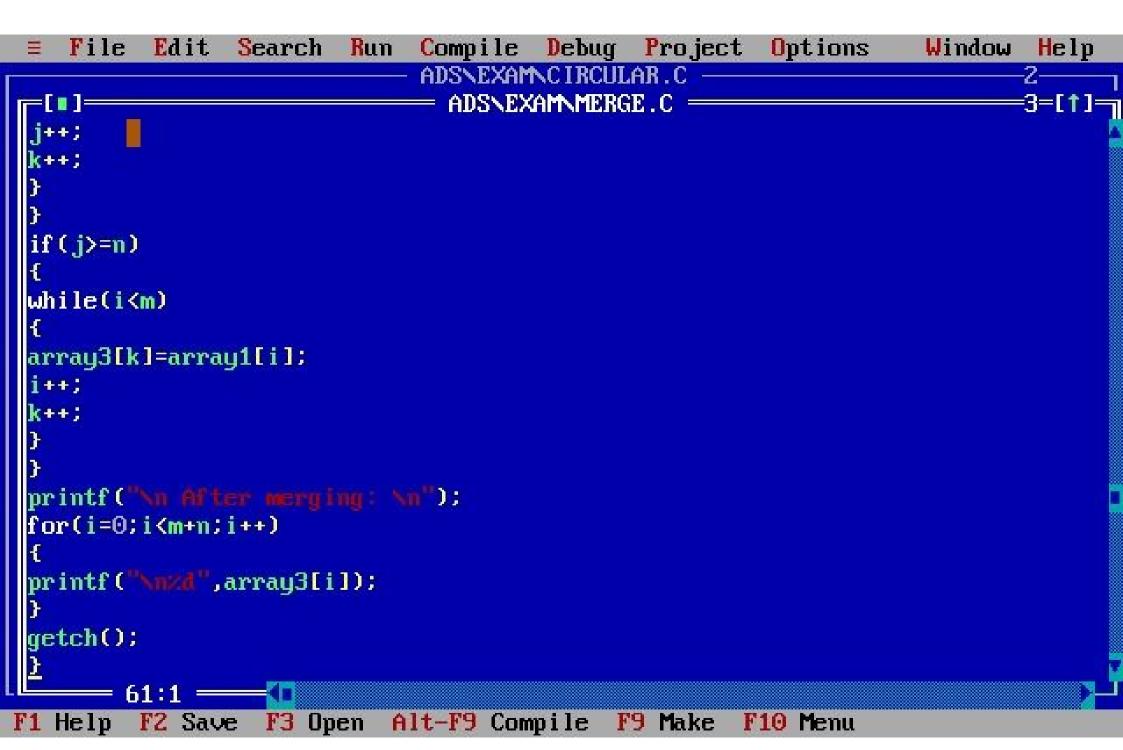
```
Enter your choice:1
Insert the element for insertion in queue:12
***Circular Queue***
1. Insert
2.Delete
3.Display
4.Quit
Enter your choice:3
Queue elements:12
***Circular Queue***
1. Insert
2.Delete
3.Display
4.Quit
Enter your choice:2
Element deleted from queue is:12
***Circular Queue***
1. Insert
2.Delete
3.Display
4.Quit
Enter your choice:4
```

```
Compile Debug Project Options
≡ File
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                                                                       Help
                            ADSNEXAMNC IRCULAR.C ———
                             ADS\EXAM\MERGE.C ----
r=[1]===
                                                                      <del>-</del>3=[†]=
#includ=<stdio.h>
#include<comio.h>
void main()
int array1[50],array2[50],array3[100],m,n,i,j,k=0;
clrscr();
printf("\n Enter the size of the array Array 1:");
printf("\n Enter sorted elements of array 1: \n");
for(i=0;i<m;i++)
scanf ("zd", &array1[i]);
printf("\n Enter the size of the array Array 2:");
scanf ( & .&n);
printf("\n Enter sorted elements of array Z: \n");
for(i=0;i<n;i++)
scanf("",&array2[i]);
      = 1:1 ====
```

F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu







```
Enter the size of the 1st array:3
 Enter the sorted elements of 1st array:
123
 Enter the size of the 2nd array:3
 Enter the sorted elements of 2nd array:
5 6 7
 After merging:
2
3
5
6
```