```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#define max 20
int q[max], rear=-1, front=-1;
int isFull();
int isEmpty();
void insert (int element);
int delete();
void display();
void main()
   while(1)
   printf("Enter choice\n");
   printf("1.Insert\n2.Delete\n3.Display\n4.Exit\n\n");
switch(choice)
   printf("Enter element to be inserted\n");
   scanf("%d", & element);
   case 2:
   element=delete();
   display();
   default:
   printf("Incorrect Input\n");
int isFull()
```

```
int isEmpty()
   if(front==-1)
void insert(int element)
   { printf("Overflow\n");
       if(front==-1)
           front=0;
       rear=(rear+1)%max;
int delete()
   if (isEmpty())
       printf("Underflow\n");
       value=q[front];
       if(front==rear)
   front==-1;
   rear==-1;
else
```

```
{
    front=(front+1)%max;
}
return(value);
}}

void display()
{
    int i;
    if(isEmpty())
        printf("Underflow\n");
    else{
        for(i=front;i!=rear;i=(i+1)%max)
            printf("%d\t",q[i]);
        printf("%d\t",q[i]);
        printf("\n");
        }
     }
}
```

```
PS C:\Users\kadab\OneDrive\Desktop\DS> gcc four.c
PS C:\Users\kadab\OneDrive\Desktop\DS> .\a.exe
Enter choice
1.Insert
2.Delete
3.Display
4.Exit
Enter element to be inserted
Enter choice
1.Insert
2.Delete
3.Display
4.Exit
Enter element to be inserted
Enter choice
1.Insert
2.Delete
3.Display
4.Exit
Enter element to be inserted
Enter choice
1.Insert
2.Delete
3.Display
4.Exit
PS C:\Users\kadab\OneDrive\Desktop\DS> []
```

