Circular queue :-

```
#include <stdio.h>
#define size 10
int front = 0, rear = 0, count = 0;
int q[size];
void InsertRear(int value){
    if(count == size){
        printf("queue overflow \n");
        return;
    }
    rear %= size;
    q[rear++] = value;
    count++;
}
int deleteFront(){
    if(count == 0){
        printf("queue underflow \n");
        return;
    }
    int value = q[front++];
    front %= size; count--;
    return value;
}
void display(){
    if(front == rear){
        printf("null");
        return;
    }
    int i=0, f = front;
    for(i=0; i<count; i++){
        printf("%d ", q[f++]);
        f %= size;
    }
    printf("\n");
```

```
}
nt main(){
    int ch, value;
    while(1){
        printf("Enter the option: \n 1- insert at rear \n 2- delete
                front \n 3- display \n 4- exit \n");
        scanf("%d", &ch);
        switch(ch){
            case 1:
                printf("Enter no. \n");
                scanf("%d", &value);
                insertRear(value);
                break;
            case 2:
                printf("Deleted value = %d \n", deleteFront());
                break;
            case 3:
                display();
                break;
            default:
                return 0;
        }
    }
}
```