

```
#include<stdio.h>
#define MAX_SIZE 10
int Q[MAX_SIZE], FRONT = -1, REAR = -1;
void enqueue(int value)
{
    ((REAR + 1) % MAX_SIZE == FRONT)
    {
        printf("Queue is Full\n");
        ;
    }

    (FRONT == -1 && REAR == -1)
    {
        FRONT = 0;
        REAR = 0;
        Q[REAR] = value;
    }

    {
        REAR = (REAR + 1) % MAX_SIZE;
        Q[REAR] = value;
    }
}
void dequeue()
{
    (FRONT == -1)
    {
        printf("Queue is Empty\n");
    }

    {
        printf("Deleted Element is: %d\n", Q[FRONT]);
        (FRONT == REAR)
        {
            FRONT = -1;
            REAR = -1;
        }

        {
            FRONT = (FRONT + 1) % MAX_SIZE;
        }
    }
}
void display()
{
    int a=0;
    (FRONT == -1)
    {
        printf("Queue is Empty\n");
        ;
    }
    int i = FRONT;
    printf("Queue elements: ");
    (a!=1)
    {
        printf("%d ", Q[i]);
        (i == REAR)
        {
            ;
        }
        i = (i + 1) % MAX_SIZE;
    }
}
```

```
        printf("\n");
    }
    int main()
    {
        int count = 0, var, value;
        (count != 1)
        {
            printf(" 1.Enqueue\n 2.Dequeue\n 3.Display\n 4.Exit\n Enter Your
Choice: ");
            scanf("%d", &var);
            (var)
            {
                1: printf("Enter a value: ");
                   scanf("%d",&value);
                   enqueue(value);
                   ;
                2: dequeue();
                   ;
                3: display();
                   ;
                4: count++;
                   printf("Exited...\n");
                   (0);
                   ;
                   : printf("invalid Number!!!\n");
            }
        }
        (0);
    }
```