```
#include<stdio.h>
#define SIZE 5
int A[SIZE];
int f=-1,r=-1;
void push()
{ int x;
    if((f==r+1 )|| (f== 0 && r==SIZE-1))
    printf("\n Queue is full \n");
    else{
         printf(" enter the element to be inserted : \n");
        scanf("%d",&x);
        if(f==-1)
        f=0;
        r=(r+1)%SIZE;
        A[r]=x;
int pop()
    int x;
    if(f==-1)
    printf("\n Queue is empty \n");
     else{
           x=A[f];
            if(f==r)
            f = -1;
             r=-1;
        else{
            f= (f+1)%SIZE;
            return x;
```

```
return x;
 void display()
    int i;
    if(f==-1)
    printf("Queue is empty \n ");
   else{
           for(i=f;i!=r;i=(i+1)%SIZE)
            printf("%d ",A[i]);
          printf("% d", A[i]);
void main()
   int op;
    printf("\n MENU ");
    printf("\n1.Push\n2.Pop\n3.Display\n4.EXIT");
   do{
        printf("\nEnter your option :");
       scanf("%d",&op);
        switch(op)
            case 1: push();
                    break;
           case 2:pop();
                   break;
           case 3: display();
                  break;
```

```
void display()
    int i;
    if(f==-1)
    printf("Queue is empty \n ");
    else{
           for(i=f;i!=r;i=(i+1)%SIZE)
            printf("%d ",A[i]);
          printf("% d", A[i]);
void main()
    int op;
    printf("\n MENU ");
    printf("\n1.Push\n2.Pop\n3.Display\n4.EXIT");
    do{
        printf("\nEnter your option :");
       scanf("%d",&op);
        switch(op)
            case 1: push();
                    break;
           case 2:pop();
                   break;
           case 3: display();
                   break;
    } while(op!=4);
```