

LAB WEEK 5 PROGRAM
MOHAMMED ABDUL HAMID
1BM19CS202
3-D

CIRCULAR QUEUE

```
#include<stdio.h>
#define size 5
int items[size];
int front=-1;
int rear=-1;
void main();
void Enqueue();
void Dequeue();
void Display();

void main()
{
int choice;
while(1)
{ int value;
printf("Enter your choice\n");
printf("1.Enqueue \n2.Dequeue\n3.Display\n");
scanf("%d",&choice);
switch (choice)
{
case 1:
printf("enter the element\n");
scanf("%d",&value);
Enqueue(value);
break;
case 2:
Dequeue();
break;
case 3:
Display();
break;

default:
printf("invalid choice, enter again\n");
}
}
}

void Enqueue(int element)
{
if(front==rear+1 || (front==0 && rear==size-1))
{
printf("queue is full!");
}
}

else
```

```

{
    if(front==-1)
        front=0;
    rear=(rear+1)%size;
    items[rear]=element;
    printf("%d inserted on queue\n",element );

}

}

void Dequeue()
{
    int element;
    if(front==-1)
    {
        printf("queue is empty!");
    }
    else
    {
        element=items[front];
        if (front==rear)
        {
            front=-1;
            rear=-1;
        }
        else
        {
            front=(front+1)%size;
            printf("the deleted item is %d\n",element);
        }
        return (element);
    }
}

}

void Display()
{
    int element,i;
    if(front==-1){
        printf("queue is empty\n");
    }
    else
    {
        printf("items are-\n");
        for (i = front; i != rear; i = (i + 1) % size){
            printf("%d\n",items[i]);
        }
        printf("%d\n",items[rear]);
    }
}
}

```

OUTPUT GIVEN BELOW

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main.c:77:1: error: 'return' with a value, in function returning void

main.c:56:6: note: declared here

Enter your choice

1.Enqueue

2.Dequeue

3.Display

1

enter the element

1

1 inserted on queue

Enter your choice

1.Enqueue

2.Dequeue

3.Display

1

enter the element

2

2 inserted on queue

Enter your choice

1.Enqueue

2.Dequeue

3.Display

1

enter the element

3

3 inserted on queue

Enter your choice

1.Enqueue

2.Dequeue

3.Display

3

items are-

1

2

3

Enter your choice

1.Enqueue

2.Dequeue

3.Display

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