WEEK 3

PROGRAM:

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#define QUE_SIZE 3
int item,front=0,rear=-1,q[10];
void insert()
{
if(rear==QUE_SIZE -1)
{
printf("Queue Overflow \n");
return;
}
rear=rear+1;
q[rear]=item;
int delete()
{
if(front>rear)
{
front=0;
rear=-1;
return(-1);
return(q[front++]);
void display()
```

```
if(front>rear)
{
printf("Queue is empty \n");
return;
}
printf("Contents of queue :\n");
for(int i=front;i<=rear;i++)</pre>
printf("%d n,q[i]);
}
void main()
{
int n;
for(;;)
{
  printf("1.INSERT \n2.DELETE \n3.DISPLAY \n4.EXIT\n");
  printf("Enter your choice:");
  scanf("%d",&n);
  switch(n)
  {
    case 1:printf("Enter item \n");
    scanf("%d",&item);
    insert();
    break;
    case 2:item=delete();
    if(item==-1)
      printf("Queue is empty\n");
    else
      printf("Deleted item : %d\n",item);
    break;
    case 3:display();
    break;
```

```
default:exit(0);
}
}
```

OUTPUT:

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