Group E32:--- Kaustubh Shrikant Kabra SE COMP-1 20

Program:---

```
#include<iostream>

using namespace std;

class pizza{
int order[10];
int max;
int f,r;

public :
pizza(){
f=-1,r=-1;

cout<<"\nEnter Maximum order : ";
cin>>max;
}

int full(){
  if(((f==0)&&(r==(max-1)))||(f==(r+1)%max))
```

```
        return 1;
    else
        return 0;
}
int qempty(){
       if(f==-1)
          return 1;
       else
          return 0;
   }

void add(int a){
if(full()){
cout<<"\nOrder is Full!!!";
}
else{
if(f==-1){
f=r=0;
}
else{
r=(r+1)%max;
}
```

```
order[r]=a;
}
}

void remove(){
int i;
i=order[f];
     if(f==r){
f=r=-1;
}
else{
f=(f+1)%max;
}
cout<<"\n Order deleted : "<<i;



}

void display(){
int temp;
temp=f;
if(qempty())
```

```
   {
      cout<<"\nNo orders currently\n";

   }
else{
cout<<"\nThe oders are : \n\n";
while(temp!=r){
cout<<"  "<<order[temp];
temp=(temp+1)%max;
}
cout<<"  "<<order[temp];
}}

};

int main(){

int ch;
pizza p;
do{
cout<<"\n1. Order \n2. Remove order \n3.Display orders \n4. Exit";
cin>>ch;
```

```
switch(ch){
case 1:int o;
    cout<<"\nEnter Order number : ";
    cin>>o;
    p.add(o);
    break;
case 2:p.remove();
    break;
case 3:p.display();
    break;

}

}while(ch!=4);
return 0;

}
```

Output:-

```
Enter Maximum order : 3
```

1. Order

2. Remove order

3.Display orders

4. Exit1

Enter Order number : 123

1. Order

2. Remove order

3.Display orders

4. Exit2

Order deleted : 123

1. Order

2. Remove order

3.Display orders

4. Exit3

No orders currently

1. Order

2. Remove order

3.Display orders

4. Exit4