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