**//pizza**

```cpp
#include<iostream>
#include<cstdlib>
using namespace std;
class pizza
{
 int front,rear,q[5];
 public:
 pizza()
 {
 front=-1;
 rear=-1;
 }
 int isfull()
 {

if((front==0&&rear==4)||front==rear+1)
 {
 return 1;
 }
 else
```

```cpp
{
return 0;
}
}
int isempty()
{
if(front==-1&&rear==-1)
{
return 1;
}
else
{
return 0;
}
}
void add()
{
if(isfull()==0)
{
cout<<"\n Enter the Pizza ID: ";
if(front==-1&&rear==-1)
{
```

```
front=0;

rear=0;

cin>>q[rear];

}

else

{

rear=(rear+1)%5;

cin>>q[rear];

}

char c;

cout<<" Do you want to add another order ? ";

cin>>c;

if(c=='y'||c=='Y')

add();

}

else

{

cout<<"\n Orders are full ";

}


}

void serve()
```

```cpp
{
if(isempty()==0)
{
if(front==rear)
{
cout<<"\n Order served is : "<<q[front];
front=-1;
rear=-1;
}
else
{
cout<<"\n Order served is : "<<q[front];
front=(front+1)%5;
}
}
else
{
cout<<"\n Orders are empty ";
}
}
void display()
{
```

```cpp
if(isempty()==0)
{
for(int
i=front;i!=rear;i=(i+1)%5)
{
cout<<q[i]<<"";
}
cout<<q[rear];
}
else
{
cout<<"\n Orders are empty";
}
}
void check()
{
int ch;
cout<<"\n\n * * * * PIZZA PARLOUR * * * * \n\n";
cout<<"\n 1. Add a Pizza \n 2. Display the Orders \n 3. Serve a pizza \n 4. Exit \n Enter your choice : ";
cin>>ch;
switch(ch)
```

```cpp
{
case 1:
add();
break;

case 2:

display();
break;

case 3:

serve();
break;

case 4:

exit(0);

default:
cout<<"Invalid choice ";
```

```cpp
check();
 }
char ch1;
cout<<"\n Do you want to continue? ";
 cin>>ch1;
 if(ch1=='y'||ch1=='Y')
check();
 }
};
int main()
{
 pizza p1;
 p1.check();
 return 0;
}
```