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#include<iostream>
#include<windows.h>
using namespace std;
const int MAX=5;

class PizzaParlour
{
    int front,rear;
    int orders[MAX];
public:
    PizzaParlour()
    {
        front=rear=-1;
    }
    bool addOrder(int data);
    void serveOrder();
    void display();
};

bool PizzaParlour::addOrder(int id){
    if(rear==-1)
    {
        front=rear=0;
        orders[rear]=id;
        return true;
    }
    else
    {
        int pos=(rear+1)%MAX;
        if(pos==front)
        {
            cout<<"\nCafe is Full.Please wait.\n";
            return false;
        }
        else
        {
            rear=pos;
            orders[rear]=id;
            return true;
        }
    }
}

void PizzaParlour::serveOrder()
{
    if(front==-1)
    {
        cout<<"\n No Orders in Cafe.[Cafe is Empty)\n";
        return;
    }
    else
    {
        cout<<"\n Order No. "<<orders[front]<<" is processed.\n";
        if(front==rear) //only one order
        {
            front=rear=-1;
        }
    }
}

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    }
    else
    {
        front=(front+1)%MAX;
    }
}
}
}

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void PizzaParlour::display()
{
    int i=0;
    if(front==-1)
    {
        cout<<"\nCafe is Empty.No orders.\n";
        return;
    }
    else
    {
        cout<<"Order Id's: \n";
        for(i=front;i!=rear;i=((i+1)%MAX))
        {
            cout<<orders[i]<<" ";
        }
        cout<<orders[rear];
    }
}

```

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void intro()
{ char name[50]={"\n Vaibhav Cafe \n"};
  for(int i=0;name[i]!='\0';i++)
  {
      Sleep(50);
      cout<<name[i];

  }
}

```

```

int main()
{
    int ch,id=0;

```

```

    PizzaParlour q;

```

```

    do
    {
        cout<<"\n-----";
        intro();
        cout<<"-----";
        cout<<"\n****Menu****\n";
        cout<<"1. Accept order\n";
        cout<<"2. Serve order\n";
        cout<<"3. Display orders\n";
        cout<<"4. Exit";

```

```

        cout<<"\nChoice: ";
        cin>>ch;

```

```
switch(ch)
{
case 1:
    id++;
    if(q.addOrder(id))
    {
        cout<<"Thank you for order.Order id is : "<<id;
    }
    else
    {
        id--;
    }
    break;

case 2: q.serveOrder();
    break;

case 3: q.display();
    break;
}
}while(ch!=4);
cout<<"\nThank You.Keep Visiting.";

}
```