

```

#include <iostream>
#include <windows.h>
#include <cstdlib> // Add this for the exit function
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)
        {
            front = rear = -1;
        }
    }
}

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

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];
    }
}

void intro()
{
    char name[50] = "\nDayDream Cafe \n";
    for (int i = 0; name[i] != '\0'; i++)
    {
        Sleep(50);
        cout << name[i]; // Fix the typo here (name[1] to name[i])
    }
}

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

    pizzaparlour q;

    do
    {
        cout << "\n\n-----";
        intro();
        cout << "-----";
        cout << "\n\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))
                {

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        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.";
}

```

/\*-----OUTPUT-----

-----  
DayDream Cafe  
-----

\*\*\*\*MENU\*\*\*\*

1. Accept Order  
2. Serve Order  
3. Display Orders  
4. Exit

Choice: 1

Thank you for Order. Order id is: 1

-----  
DayDream Cafe  
-----

\*\*\*\*MENU\*\*\*\*

1. Accept Order  
2. Serve Order  
3. Display Orders  
4. Exit

Choice: 1

Thank you for Order. Order id is: 2

-----  
DayDream Cafe  
-----

\*\*\*\*MENU\*\*\*\*

1. Accept Order  
2. Serve Order  
3. Display Orders  
4. Exit

Choice: 3

Order Id's:

1 2

-----  
DayDream Cafe  
-----

\*\*\*\*MENU\*\*\*\*

1. Accept Order
2. Serve Order
3. Display Orders
4. Exit

Choice: 2

Order No. 1 is processed.

-----  
DayDream Cafe  
-----

\*\*\*\*MENU\*\*\*\*

1. Accept Order
2. Serve Order
3. Display Orders
4. Exit

Choice: 3

Order Id's:

2

-----  
DayDream Cafe  
-----

\*\*\*\*MENU\*\*\*\*

1. Accept Order
2. Serve Order
3. Display Orders
4. Exit

Choice: 4

Thank you. Keep visiting.

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