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/* DSL - EXPERIMENT 13 - E32 */
#include <iostream>
using namespace std;
#define MAX 5
string arr[3] = {"Veg Soya Pizza", "Veg butter Pizza", "Chicken Pizza"};
class Pizza {
    int order[MAX];
    int front, rear;
    public:
        Pizza() {
            front = rear = -1;
        int isFull() {
            return ((front = \emptyset) & (rear = (MAX - 1)) | (front = (rear + 1) % MAX));
        int isEmpty() {
            return (front = -1);
        voia accept order(int);
        voia make_payment(int);
        voia order_in_queue();
};
voia Pizza::accept_order(int item) {
    if (isFull())
        cout<<"\nVery Sorry !!!! No more orders....\n";</pre>
        if (front = -1)
            front = rear = \emptyset;
        else
            rear = (rear + 1) \% MAX;
        order[rear] = item;
```

```
void Pizza::make payment(int n) {
    int item;
    char ans;
    if (isEmpty())
        cout<<"\nSorry !!! There are no pending orders....\n";</pre>
        cout<<"\nDeliverd orders as follows ... \n";</pre>
         for(int i = \emptyset; i < n; i \leftrightarrow) {
             item = order[front];
             if(front = rear)
                 front = rear = -1;
             else
                 front = (front + 1) % MAX;
             cout << arr[item - 1] << " , ";</pre>
        }
        cout \ll "\n\nTotal amount to pay = " \ll n * 100;
        cout << "\nThank you visit Again....\n";
    }
voia Pizza::order_in_queue() {
    int i;
    if (isEmpty())
        cout \ll "\nSorry !! There is no pending order ... \n";
    else {
        i = front;
        cout << "\nPending Order as follows..\n";</pre>
        while (i \neq rear) {
             cout << arr[order[i] - 1] << " , ";</pre>
             i = (i + 1) \% MAX;
        cout << arr[order[i] - 1] << "\n";</pre>
```

```
int main()
    Pizza pizza;
    int ch,k,n;
    do {
        cout << "\n \land n \land t *** **  Welcome To Pizza Parlor *** ** * \land n"
             \ll "\n1. Accept order\n2. Make_payment\n3. Pending Orders\n4. Exit"
             << "\nEnter your choice: ";</pre>
        cin >> ch;
        switch(ch) {
                 cout≪ "\nWhich Pizza do u like most....\n"
                      << "\n1. Veg Soya Pizza\n2. Veg butter Pizza\n3. Chicken Pizza"</pre>
                      << "\nPlease enter your order: ";</pre>
                 cin \gg k;
                 pizza.accept_order(k);
                 break;
             case 2:
                 cout << "\nHow many Pizza do you want? ";</pre>
                 cin >> n;
                 pizza.make_payment(n);
                 break;
             case 3:
                 cout \ll "\nFollowing orders are in queue to deliver....as follows..\n";
                 pizza.order_in_queue();
                 break;
    } while (ch \neq 4);
    return 0;
```

--- OUTPUT -----

**** Welcome To Pizza Parlor *****

- 1. Accept order
- 2. Make_payment
- 3. Pending Orders
- 4. Exit

Enter your choice: 1

Which Pizza do u like most....

- 1. Veg Soya Pizza
- 2. Veg butter Pizza
- 3. Chicken Pizza

Please enter your order: 1

**** Welcome To Pizza Parlor *****

- 1. Accept order
- 2. Make_payment
- 3. Pending Orders
- 4. Exit

Enter your choice: 1

Which Pizza do u like most....

- 1. Veg Soya Pizza
- 2. Veg butter Pizza
- 3. Chicken Pizza

Please enter your order: 2

**** Welcome To Pizza Parlor *****

- 1. Accept order
- 2. Make_payment
- 3. Pending Orders
- 4. Exit

Enter your choice: 1

Which Pizza do u like most....

- 1. Veg Soya Pizza
- 2. Veg butter Pizza
- 3. Chicken Pizza

Please enter your order: 3

**** Welcome To Pizza Parlor *****

- 1. Accept order
- 2. Make_payment
- 3. Pending Orders
- 4. Exit

Enter your choice: 1

Which Pizza do u like most....

- 1. Veg Soya Pizza
- 2. Veg butter Pizza
- 3. Chicken Pizza

Please enter your order: 1

**** Welcome To Pizza Parlor *****

- 1. Accept order
- 2. Make_payment
- 3. Pending Orders
- 4. Exit

Enter your choice: 1

Which Pizza do u like most....

- 1. Veg Soya Pizza
- 2. Veg butter Pizza
- 3. Chicken Pizza

Please enter your order: 2

**** Welcome To Pizza Parlor *****

- 1. Accept order
- 2. Make_payment
- 3. Pending Orders
- 4. Exit

Enter your choice: 1

Which Pizza do u like most....

- 1. Veg Soya Pizza
- 2. Veg butter Pizza
- 3. Chicken Pizza

Please enter your order: 3

Very Sorry !!!! No more orders....

**** Welcome To Pizza Parlor *****

- 1. Accept order
- 2. Make payment
- 3. Pending Orders
- 4. Exit

Enter your choice: 3

Following orders are in queue to deliver....as follows..

Pending Order as follows..

Veg Soya Pizza , Veg butter Pizza , Chicken Pizza , Veg Soya Pizza , Veg butter Pizza

**** Welcome To Pizza Parlor *****

- 1. Accept order
- 2. Make_payment
- 3. Pending Orders
- 4. Exit

Enter your choice: 2

How many Pizza do you want? 3

Deliverd orders as follows... Veg Soya Pizza , Veg butter Pizza , Chicken Pizza

Total amount to pay = 300 Thank you visit Again....

**** Welcome To Pizza Parlor *****

- 1. Accept order
- 2. Make_payment
- 3. Pending Orders
- 4. Exit

Enter your choice: 3

Following orders are in queue to deliver....as follows..

Pending Order as follows.. Veg Soya Pizza , Veg butter Pizza

**** Welcome To Pizza Parlor *****

- 1. Accept order
- 2. Make_payment
- 3. Pending Orders
- 4. Exit

Enter your choice: 2 How many Pizza do you want? 2 Deliverd orders as follows ... Veg Soya Pizza , Veg butter Pizza Total amount to pay = 200 Thank you visit Again.... **** Welcome To Pizza Parlor ***** 1. Accept order 2. Make_payment 3. Pending Orders Enter your choice: 3 Following orders are in queue to deliver....as follows.. Sorry !! There is no pending order ... **** Welcome To Pizza Parlor ***** 1. Accept order 2. Make_payment 3. Pending Orders 4. Exit Enter your choice: 4