```cpp
int main(){
        const int We set the weight of each
        const int chocolate bar depending
        const int  on the size of each using int for integers

        const double We set the price of each chocolate bar
        const double it need to be double since is a floating number
        const double each bar have a different price

         int largeBars We set the quantity that we have of each bar
         int mediumBars this are the variables we are going to be subtracting
         int smallBars We use int again because are integers

        Char continueOrder This is for the user in case he want to do another order

        while (continueOrder == 'Y' || continueOrder == 'y') {
    int requestedPounds; The While loop we have is to be able to do more orders and as we
can see there is double continueOrder but the difference is that the continue Order char is
different in both one is big Y and the other is lower y this way the customer doesn't have a
margin of error when he clicks Y or y

    cout << "\nOrder #" << orderNumber << endl; This cout is to print exactly "Order #" and
after that the number order which starts at 1 and if he is doing the second order it would say
2 and on an on
    cout << "Enter pounds of chocolate to order: "; pretty simple just asking the customer how
many pounds of chocolate he wants
    cin >> requestedPounds; we store the variable of the quantity the customer answer that
he request in here

    if (requestedPounds <= 0) { This loop is just so the customer dont write a negative number
or 0
        cout << "Invalid order quantity. Must be greater than 0.\n";This is the message that
would pop up if he types 0
        continue;  if he doesnt type 0 then it continues as normal
    }


      (((((( int tempLarge = largeBars;
       int tempMedium = mediumBars;
       int tempSmall = smallBars;

       int poundsLeft = requestedPounds;
       int usedLarge = 0, usedMedium = 0, usedSmall = 0;


       int maxLargeUse = poundsLeft / LARGE_POUND;)))) All of this is basically to subtract
the order to the total inventory we have in stock
```

```cpp
        if (poundsLeft > 0) {

        cout << "Error: Unable to fill the order with current inventory.\n";
        cout << "Order cancelled.\n";
    }
```
This if statement is incase we dont have enough in the inventory would pop up the text Error:Unable to fill the order with current inventory and then skip a line with \n
```cpp
    else {

        largeBars -= usedLarge;
        mediumBars -= usedMedium;
        smallBars -= usedSmall;


        double cost = usedLarge * LARGE_PRICE + usedMedium * MEDIUM_PRICE +
usedSmall * SMALL_PRICE;


        cout << "Order filled successfully!\n";
        cout << "Used bars:\n";
        cout << "  Large bars: " << usedLarge << "\n";
        cout << "  Medium bars: " << usedMedium << "\n";
```
The else statement is different is when is a normal transaction we have enough chocolates and the customer can add thing to his order and complete the order would pop up the price and total cost
```cpp
        cout << "  Small bars: " << usedSmall << "\n";
        cout << "Total cost: $" << cost << endl;


        cout << "Remaining inventory:\n";
        cout << "  Large bars: " << largeBars << "\n";
        cout << "  Medium bars: " << mediumBars << "\n";
        cout << "  Small bars: " << smallBars << "\n";

        orderNumber++;
    }
```
Almost final would say how many bar we have left
```cpp
    cout << "Would you like to enter another order? (Y/N): ";
    cin >> continueOrder;
}
```
The machine would ask the use if he want to fill another order Y,y or N.