

Answer on Question#38809 – Programming - C++

```
#include <iostream>
#include <string>
#include <conio.h>
using namespace std;

struct state
{
    string name;
    double taxRate;
}; //struct to save state data

int main()
{
    int count =0;//count of items
    float price = 0;//unit price
    state St[2];//first and second state
    short number;//index of the best state
    cout << "Hello! ";
    while(price <= 0)//input unit price until positive
    {
        cout<<"Please, enter unit price of item($): ";
        cin >> price;
    }
    while(count <= 0)//input items quantity until positive
    {
        cout << "Please, enter amount of items to buy: ";
        cin >> count;
    }
    cout << "Enter now data of first state: \nName: ";//input data of the first state
    cin >> St[0].name;
    cout << "Tax rate(%): ";
    cin >> St[0].taxRate;

    cout << "Enter now data of second state: \nName: ";//input data of the second
state
    cin >> St[1].name;
    cout << "Tax rate(%): ";
    cin >> St[1].taxRate;

    if(St[0].taxRate <= St[1].taxRate)//determines which of states is better
        number = 0;
    else
        number = 1;
    //output
    cout << "\nYou've decided to buy " << count << " items for " << price << "$ each.
Total cost: " << count*price << "$" << endl;
    cout << "In the first state " << St[0].name << " tax rate is " << St[0].taxRate <<
"%" << endl;
    cout << "In the second state " << St[1].name << " tax rate is " << St[1].taxRate
<< "%" << endl;
    cout << "It is recommended to buy at the " << ((number == 0)?"first":"second") <<
" state(" << St[number].name << "). Total cost there is: " <<
count*price*(100+St[number].taxRate)/100 << "$" << endl;

    cout << "Press any key to exit.\n";
    getch();
}
```