//E-commerce Platform management

#include<iostream>

#include<map>

using namespace std;

map<string, map<string, double>> items;

void products(){

    items["Book"]["1984"] = 150;

    items["Book"]["Ikigai"] = 250;

    items["Soap"]["Cinthol"] = 40;

    items["Soap"]["Lux"] = 50;

    items["Soap"]["Rux"] = 50;

    items["Bags"]["Skybag"]=500;

}

void purchase(const string& category, const string& type){

    if(items.find(category) != items.end() && items[category].find(type) != items[category].end()){

        cout<<"You have purchased "<< type <<" in "<< category << " for Rs. "<< items[category][type] << endl;

    }

    else

    cout<<"Invalid Selection! Item not available.....";

}

int main(){

    products();

    cout<<"Welcome to our shop!\n";

    bool continueShopping = true;

    while(continueShopping){

        cout<<"Available Products:\n";

        for(const auto& category : items){

            cout<< category.first << ":\n";

            for(const auto& type: category.second){

                cout<<"- "<<type.first<<"Price: "<<type.second<<endl;

            }

        }

        string category, type;

        cout<<"Enter the category and model you want to purchase: ";

        cin>>category>>type;

        purchase(category,type);

            char choice;

        cout<<"Do you want to continue shopping? (y/n): ";

        cin>>choice;

        continueShopping = (choice=='y'||choice=='Y');

    }

    cout<<"Thank you for shopping with us!"<<endl;

    return 0;

}