

1

```
// Answer On Question 38472
#include <cstdlib>
#include <iostream>
#include <stdio.h>

using namespace std;

double power(double x, int n) {
    if (x != 0) {
        if (n > 0) {
            double p = x;
            for (int i = 0; i < n - 1; i++) {
                p *= x;
            }
            return p;
        }
        else if (n == 0) {
            return 1;
        }
        else {
            double p = x;
            for (int i = 0; i < n - 1; i++) {
                p *= x;
            }
            return 1 / p;
        }
    }
    else {
        if (n > 0) {
            return 0;
        }
        else {
            cerr << "Error " << endl;
            return 0;
        }
    }
}

int main() {
    cout << "-----" << endl;
    cout << " CALCULATE X^n" << endl;
    cout << "-----" << endl;
    double x;
    int n;
    cout << "Enter x: ";
    cin >> x;
    cout << "Enter n: ";
    cin >> n;
    cout << endl << x << "^" << n << " = " << power(x, n) << endl;
    cout << endl << "Press enter to exit...";
    getchar();
    getchar();
    return 0;
}
```

2

```
#include <cstdlib>
#include <iostream>
#include <string>
#include <iomanip>
#include <stdio.h>

using namespace std;

int getNumber(string name, string array[], int n) {
    for (int i = 0; i < n; i++) {
        if (name.compare(array[i]) == 0) {
            return i;
        }
    }
    return -1;
}

void printTable(string districts[], string categories[], int table[5][3], int n, int m) {
    cout.setf(ios::left);
    cout << setw(15) << "District" << setw(15) << "Homemaking" << setw(15) <<
"Industry" << setw(15) << "Commercial" << endl;
    for (int i = 0; i < n; i++) {
        cout << setw(15) << districts[i];
        for (int j = 0; j < m; j++) {
            cout << setw(15) << table[i][j];
        }
        cout << endl;
    }
}

int main() {
    string districts[5] = { "New York", "Washington", "Florida", "LA", "New Jersey" };
    string categories[3] = { "Homemaking", "Industry", "Commercial" };
    int table[5][3] = {
        { 626, 94, 269 },
        { 189, 19, 46 },
        { 231, 24, 63 },
        { 205, 18, 55 },
        { 305, 53, 0 }
    };
    printTable(districts, categories, table, 5, 3);
    cout << endl << "Enter district: ";
    string district;
    getline(cin, district);
    cout << "Enter category: ";
    string category;
    getline(cin, category);
    int consumeForDistrict = 0;
    int consumeForCategory = 0;
    int disNumber = getNumber(district, districts, 5);
    int catNumber = getNumber(category, categories, 3);
    for (int j = 0; j < 3; j++) {
        consumeForDistrict += table[disNumber][j];
    }
    for (int i = 0; i < 5; i++) {
        consumeForCategory += table[i][catNumber];
    }
}
```

```
}
cout << "Consume for " << district << ": " << consumeForDistrict << endl;
cout << "Consume for " << category << ": " << consumeForCategory << endl;
cout << endl << "Press enter to exit...";
getchar();
getchar();
return 0;
}
```