#include<bits/stdc++.h>

using namespace std;

class ChatBot

{

    private:

        vector<pair<vector<string>, vector<string>>> database;

    public:

        ChatBot()

        {

            database =

            {

                {

                    {"hi", "hello"},

                    {"HI THERE!", "HOW ARE YOU?", "HI!"}

                },

                {

                    {"what is your name?"},

                    {"MY NAME IS CHATTERBOT2.", "YOU CAN CALL ME CHATTERBOT2.",

                        "WHY DO YOU WANT TO KNOW MY NAME?"}

                },

                {

                    {"how are you?"},

                    {"I'M DOING FINE!", "I'M DOING WELL AND YOU?",

                        "WHY DO YOU WANT TO KNOW HOW AM I DOING?"}

                },

                {

                    {"who are you?"},

                    {"I'M AN A.I PROGRAM.", "I THINK THAT YOU KNOW WHO I'M.",

                        "WHY ARE YOU ASKING?"}

                },

                {

                    {"are you intelligent?"},

                    {"YES,OFCORSE.", "WHAT DO YOU THINK?", "ACTUALY,I'M VERY INTELLIGENT!"}

                },

                {

                    {"are you real?"},

                    {"DOES THAT QUESTION REALLY MATERS TO YOU?", "WHAT DO YOU MEAN BY THAT?",

                        "I'M AS REAL AS I CAN BE."}

                },

                {

                    {"bye", "by", "byee"},

                    {"IT WAS NICE TALKING TO YOU USER, SEE YOU NEXTTIME!"}

                }

            };

        }

        void response(string input);

};

void ChatBot::response(string input)

{

    if(input == "")

        cout << "\n\t\t\t Sorry, I'm not getting...";

    string res = "";

    bool flag = false;

    for(int i=0; i<database.size(); i++)

    {

        if(find(database[i].first.begin(), database[i].first.end(), input) != database[i].first.end())

        {

            flag = true;

            int a = (rand()% (database[i].second.size()));

            res = database[i].second[a];

        }

    }

    if(!flag)

        cout << "\n\t\t\t Sorry, I'm not getting...";

    cout << "\n\t\t\t" << res <<"\n";

}

int main()

{

    string req = "";

    while(true)

    {

        cout << "\n\t Enter Your Input : ";

        getline(cin, req);

        for(int i=0; i<req.length(); i++)

            req[i] = tolower(req[i]);

        if(req == "stop")

        {

            cout << "\n\t\t\tIT WAS NICE TALKING TO YOU USER, SEE YOU NEXTTIME!\n\n";

            return -1;

        }

        ChatBot obj;

        obj.response(req);

    }

    return 0;

}