**Exercise\_2\_solution**

#include <iostream>

#include <iomanip>

#include <string>

#include <cstring>

using namespace std;

int main()

{

string stateName, abbr;

char choice;

do

{

stateName = "";

abbr = "";

cout << "Enter a state name: ";

getline(cin, stateName);

int sp1 = stateName.find(" ");

int sp2 = stateName.find(" ", sp1 + 1);

if (sp1 == -1)

{

abbr += toupper(stateName[0]);

abbr += toupper(stateName[1]);

}

else if (sp1 != -1 && sp2 == -1)

{

abbr += toupper(stateName[0]);

abbr += toupper(stateName[sp1 + 1]);

}

else

{

abbr += toupper(stateName[0]);

abbr += toupper(stateName[sp1 + 1]);

abbr += toupper(stateName[sp2 + 1]);

}

cout << "\"" << stateName << "\"" << " or the abbreviation is: " << abbr << endl;

cout << "Continue(y/n) ? ";

cin >> choice;

choice = toupper(choice);

cin.ignore();

cout << endl;

} while (choice == 'Y');

system("pause");

return 0;

}

Alternative solution:

int main()

{

string stateName, abbr;

char choice;

getline(cin, stateName);

cout << char(toupper(stateName[0]));

int space = 0;

for (int i = 1; i < stateName.length(); i++)

{

if (stateName[i] == ' ') space++;

if (stateName[i] == ' '&& stateName[i + 1] != ' ' && stateName[i + 1] != '\0')

cout << char(toupper(stateName[i + 1]));

}

if (space == 0)

cout << char(toupper(stateName[1]));

cout << endl;

system("pause");

return 0;

}