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/* string : Write a C++ program to reverse a given string.
-----"1"-----
*/

#include <iostream>
#include <string>
using namespace std;

string reverse_string(string str) {
    string temp_str = str;
    int index_pos = 0;

    for (int x = temp_str.length()-1; x >= 0; x--)
    {
        str[index_pos] = temp_str[x];
        index_pos++;
    }
    return str;
}

int main()
{
    cout << "Original string: w3resource";
    cout << "\nReverse string: " <<
reverse_string("w3resource");

    cout << "\n\nOriginal string: Python";
    cout << "\nReverse string: " <<
reverse_string("Python");

    return 0;
}

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/*-----
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Write a C++ program to change every letter in a given
string with the letter following it in the alphabet (i.e.
a becomes b, p becomes q, z becomes a).
-----"2"-----*/

#include <iostream>
#include <string>
using namespace std;

string change_letter(string str) {

    int char_code;

    for (int x = 0; x < str.length(); x++)
    {
        char_code = int(str[x]);

        if (char_code == 122)
        {
            str[x] = char(97);
        }
        else if (char_code == 90)
        {
            str[x] = char(65);
        }
        else if (char_code >= 65 && char_code <= 90 ||
char_code >= 97 && char_code <= 122)
        {
            str[x] = char(char_code + 1);
        }
    }
}

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    }

    return str;

int main()
{
    cout << "Original string: w3resource";
    cout << "\nNew string: " <<
change_letter("w3resource");

    cout << "\n\nOriginal string: Python";
    cout << "\nNew string: " << change_letter("Python");

    return 0;
}
/*-----
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Write a C++ program to capitalize the first letter of each
word in a given string. Words must be separated by only
one space.
-----"3"-----
-----*/

#include <iostream>
#include <string>

using namespace std;

string Capitalize_first_letter(string text) {

    for (int x = 0; x < text.length(); x++)
    {
        if (x == 0 || text[x - 1] == ' ')

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        {
            text[x] = toupper(text[x]);
        }
    }

    return text;
}

int main()
{
    cout << Capitalize_first_letter("Write a C++
program");

    cout << "\n" << Capitalize_first_letter("cpp string
exercises");

    return 0;
}
```