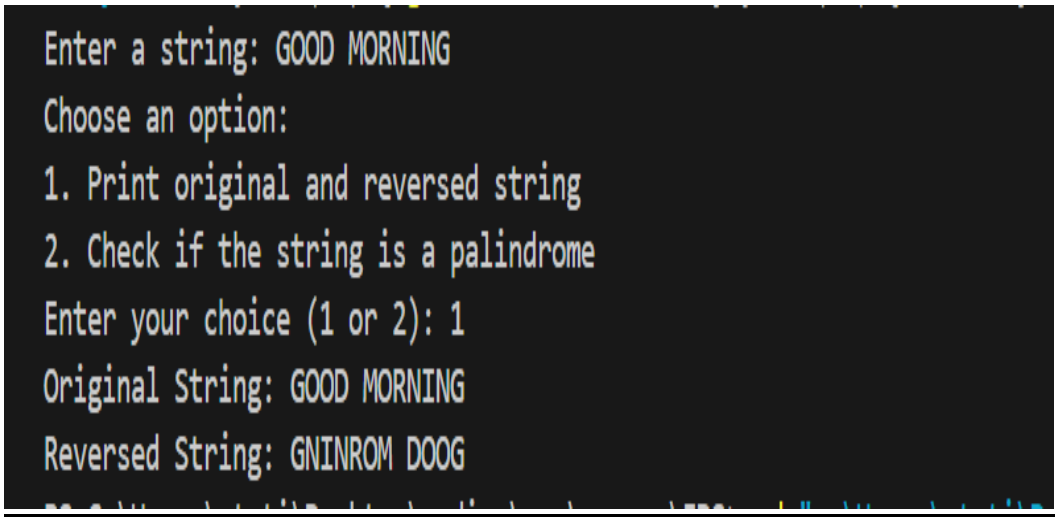
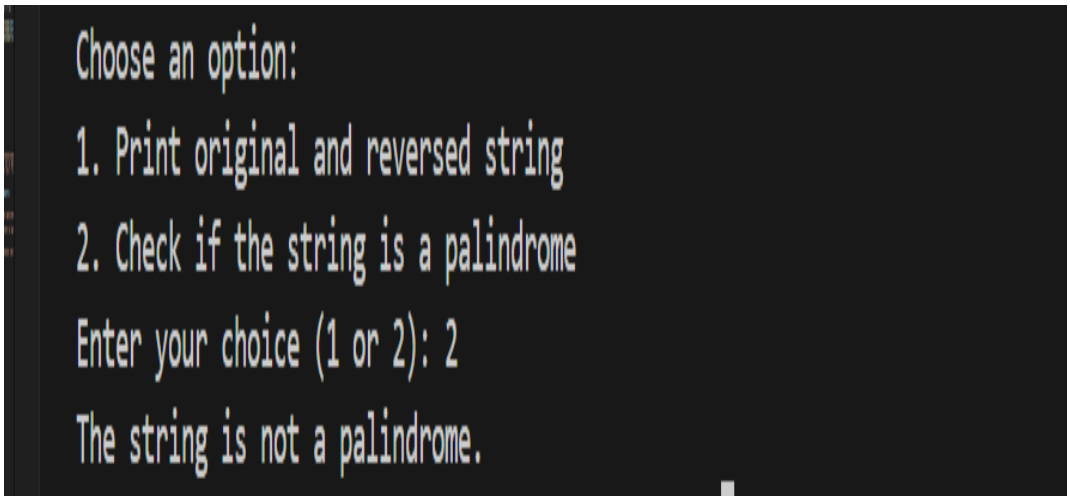
## //CODE:

```
#include <iostream>
#include <string>
#include <cctype>
using namespace std;
void printOriginalAndReversed(const string& str) {
    cout << "Original String: " << str << endl;
    cout << "Reversed String: ";
    for (int i = str.size() - 1; i >= 0; --i) {
        cout << str[i];
    }
    cout << endl;
}
bool isPalindrome(const string& str) {
    int left = 0, right = str.size() - 1;
    while (left < right) {
        while (left < right && !isalnum(str[left])) left++;
        while (left < right && !isalnum(str[right])) right--;
        if (tolower(str[left]) != tolower(str[right])) {
            return false;
        }
        left++;
        right--;
    }
    return true;
}

int main() {
    string input;
```

```
    int choice;

    cout << "Enter a string: ";
    getline(cin, input);
    cout << "Choose an option:\n";
    cout << "1. Print original and reversed string\n";
    cout << "2. Check if the string is a palindrome\n";
    cout << "Enter your choice (1 or 2): ";
    cin >> choice;
    if (choice == 1) {
        printOriginalAndReversed(input);
    } else if (choice == 2) {
        if (isPalindrome(input)) {
            cout << "The string is a palindrome." << endl;
        } else {
            cout << "The string is not a palindrome." << endl;
        }
    } else {
        cout << "Invalid choice. Please select 1 or 2." << endl;
    }
    return 0;
}
```

**//OUTPUT:**


Enter a string: GOOD MORNING
Choose an option:
1. Print original and reversed string
2. Check if the string is a palindrome
Enter your choice (1 or 2): 1
Original String: GOOD MORNING
Reversed String: GNINROM DOOG


Choose an option:
1. Print original and reversed string
2. Check if the string is a palindrome
Enter your choice (1 or 2): 2
The string is not a palindrome.