

# Vulnerable C++ Code – Secure Coding Review

## Description:

This program demonstrates insecure coding practices commonly found in C++ applications. It is intentionally vulnerable and used only for educational purposes.

## Identified Vulnerabilities:

- Use of fixed-size character arrays
- Buffer overflow risk due to unchecked input
- Hardcoded credentials
- Lack of input validation

## Vulnerable C++ Code:

```
#include <iostream>
#include <cstring>
using namespace std;

int main() {
    char username[10];
    char password[10];

    cout << "Enter username: ";
    cin >> username;

    cout << "Enter password: ";
    cin >> password;

    if (strcmp(username, "admin") == 0 && strcmp(password, "1234") == 0) {
        cout << "Login Successful!";
    } else {
        cout << "Login Failed!";
    }
    return 0;
}
```