Lab 8 String Manipulation

Introduction to Computer Science I

# Objectives:

After performing this lab, the students should be able to

* write C++ programs that involve manipulation of strings

# Names of Lab Group Members:

## Activity

Provide your C++ source code and screenshot of your program output.

**Tweet Decoder**

The following program decodes a few common abbreviations in online communication as communications in Twitter ("tweets") or email, and provides the corresponding English phrase.

|  |  |
| --- | --- |
| #include <iostream>  #include <string>  **using** **namespace** std;  **int** main() {  string tweet;    cout << "Enter abbreviation from tweet: ";  cin >> tweet;    **if** (tweet == "LOL") {  cout << "LOL = laughing out loud" << endl;  }  **else** **if** (tweet == "BFN") {  cout << "BFN = bye for now" << endl;  }  **else** **if** (tweet == "FTW") {  cout << "FTW = for the win" << endl;  }  **else** **if** (tweet == "IRL") {  cout << "IRL = in real life" << endl;  }  **else** {  cout << "Sorry, don't know that one." << endl;  }    **return** 0;  } | Enter abbreviation from tweet: LOL  LOL = laughing out loud  ...  Enter abbreviation from tweet: FTW  FTW = for the win  ...  Enter abbreviation from tweet: IMHO  Sorry, don't know that one. |

**Create a modified version of this program that:**

1. Expands the number of abbreviations that can be decoded. Add support for **at least three additional abbreviations** you commonly use or search the Internet to find a list of common abbreviations.
2. Allows the user to enter a complete tweet (140 characters or less) as a single line of text. Search the user’s tweet for those common abbreviations and converts the user's tweet to a decoded tweet, replacing the abbreviations directly within the tweet.