Gabriel Marcelino

CST-210

This is my own work

January 16, 2022

Code:

#include <cstdlib>

#include <iostream>

#include <vector>

#include <sstream>

using namespace std;

int main()

{

string str = "";

while (str != "quit")

{

// initialize variables

string encptd = "";

int key = 0;

// ask for words

cout << "Enter words to encrypt, enter \"quit\" to quit: ";

std::cin.ignore();

getline(cin, str);

// check if user wants to quit program

if (str == "quit")

{

return 0;

}

string arr[8];

int i = 0;

stringstream ssin(str);

// create array with the original words

while (ssin.good() && i < 8)

{

ssin >> arr[i];

++i;

}

// ask for key

cout << "Enter the key: ";

cin >> key;

for (int i = 0; i < str.length(); i++)

{

// if there is a space, copy it to the encrypted string

if (str[i] == ' ')

{

encptd += ' ';

}

else

{

// encrypt words

int value = int(str[i]) - 97;

int enc = ((value + key) % 26) + 97;

encptd += tolower(char(enc));

}

}

// create array to store encrypted words

string encryp[8];

int j = 0;

stringstream ssin2(encptd);

// copy words from string to array

while (ssin2.good() && j < 8)

{

ssin2 >> encryp[j];

++j;

}

// print out results

for (i = 0; i < 8; i++)

{

printf("%-5s %-5s\n", arr[i].c\_str(), encryp[i].c\_str());

}

}

return 0;

}