**5 points – Due March 4, 3pm**

Please enter the last name, first name, and Wayne State six-character access ID for each individual who actually joined and participated in the breakout room mission:

|  |  |  |  |
| --- | --- | --- | --- |
| Member | Last name | First name | Access ID |
| **1** | Hayashiya | Shou | Gt8716 |
| **2** | Golam | Tahsin | Gj4559 |
| **3** | Hamam | Naji | Hd6336 |
| **4** | Rory | Lange | Hc9332 |
| **5** |  |  |  |
| **6** |  |  |  |

You've been hired by *Lucky Letters* to write a validation loop to prompt for and get from the user one of the letters W, S, or U. Enable the user to enter a lower or upper case letter. Convert whatever they enter to upper case. If they entered an invalid letter (or character), print an error message and prompt the user again. After the loop, print the number of times the user was prompted.

1) Designate one member of your group to be the "scribe".

2) Have the scribe share their screen with the other group members.

3) Choose how to show your **validation loop**. Code may be:

a) Written on paper and photographed.

OR

b) Entered in a text editor and screenshotted.

4) Create the **validation loop**.

5) Paste the **validation loop** where indicated below.

6) Submit this Word document to Canvas. You're done! You may leave the Zoom breakout room and session.

//mission 2 written by rory lange in collaboration with 3 others mentioned in doc

#include <cstdlib> // For several general-purpose functions

#include <fstream> // For file handling

#include <iomanip> // For formatted output

#include <iostream> // For cin, cout, and system

#include <string> // For string data type

using namespace std; // So "std::cout" may be abbreviated to "cout"

int main() {

char input;

int counter = 1;

cout << "Enter W, S, or U: ";

cin >> input;

input = toupper(input);

while (input != 'W' && input != 'S' && input != 'U') {

cout << "Error: your character is an invalid value" << endl;

cout << "Enter a valid character: ";

cin >> input;

input = toupper(input);

counter++;

}

cout << endl << "Correct Value" << endl;

cout << "The user was prompted " << counter << " time(s).";

}