

Assignment 1: ASCII Art

Due: 23:59, Wed 24 Jan 2024

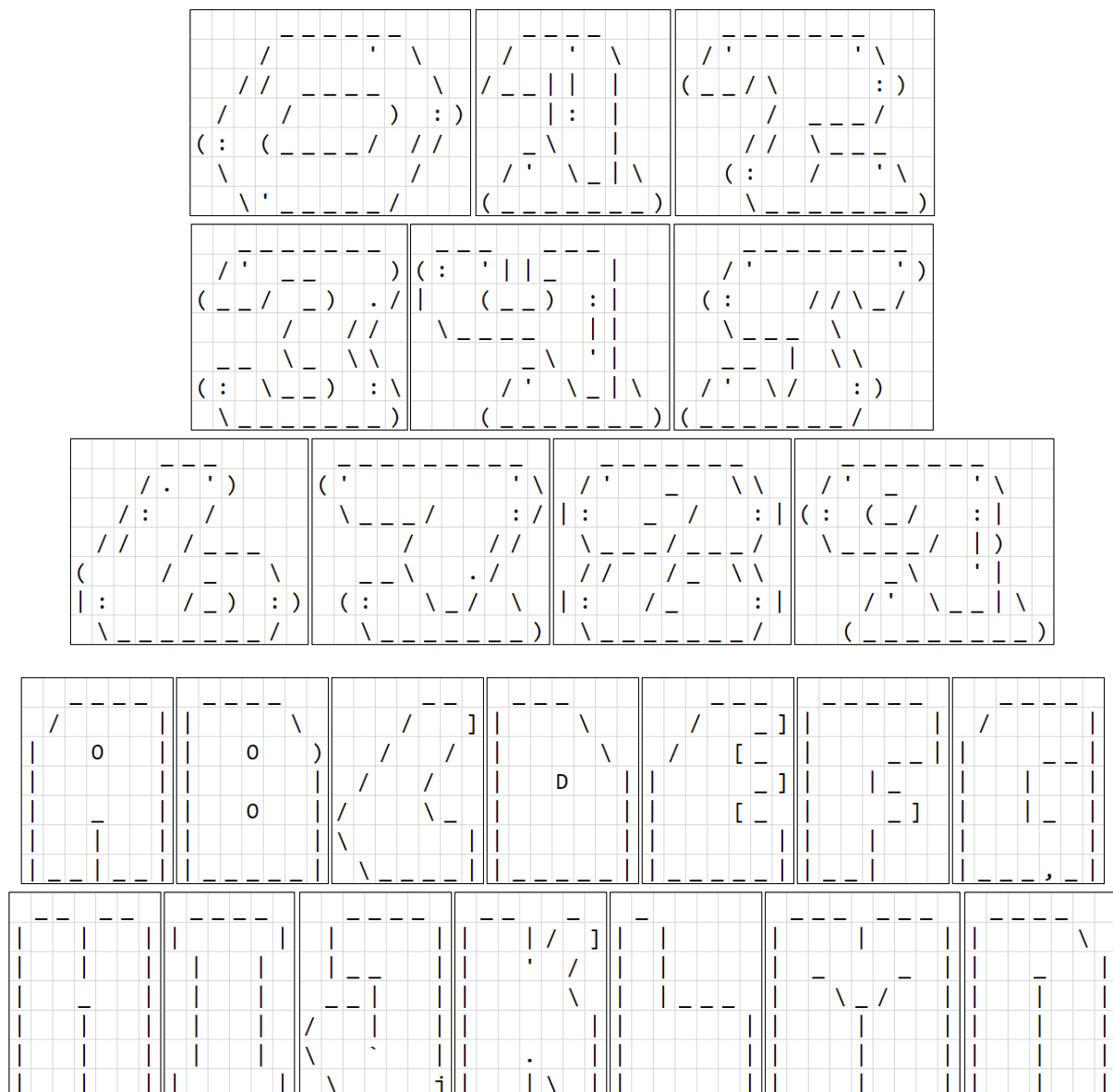
File name: ascii.cpp

Full marks: 100

Introduction

The objective of this assignment is to become familiar with Visual Studio Community 2022. Details on its usage will be provided in Tutorial 1. You will modify a provided program to print out some text in *ASCII art* using `cout` statements.

The following shows the digits 0–9 and letters A–Z in ASCII art, which consists of the space and other symbols: `_` (underscore), `/`, `\`, `|`, `[`, `]`, `(`, `)`, `:`, `'` (single-quote), ``` (backtick), `.`, `~`, `D`, `O` (uppercase letter O, not zero), `o`, `j`.



Open Visual Studio 2022 > “Create a new project” > “Console App”. Rename the source file to ascii.cpp. Modify the program in Figure 1 so that it prints out the last four digits of your student ID followed by the first four letters of your surname in ASCII art.

```

/* CSCI1520
 *
 * Assignment: 1
 * Student ID:
 * Name      :
 * Email     :
 * Please insert the above info in all future assignment submissions.
 */

#include <iostream>
using namespace std;

int main() {
    cout << "
    cout << "(: '|_| |   /.' ')   /' _ ' \ \   /' _ \ \ \ \ | |   /   | |   |_| | \n";
    cout << "| ( _ ) :|   /: /   (: ( / :| | :| _ / :|| |   | 0 || | | | \n";
    cout << " \ \ _ _ ||   // / _ \ \ _ _ / | )   \ \ _ _ / _ | | _ _ | | | | | \n";
    cout << "   /' \ \ ' | (   / _ \ \   /' \ \ ' | // / _ \ \ \ \ | | | _ | | ' ' | \n";
    cout << "   /' \ \ | \ \ | :   / _ ) : )   /' \ \ _ \ \ | :   / _ : || | | | | \ \   / \n";
    cout << "   ( _ _ _ ) \ \ _ _ _ /   ( _ _ _ ) \ \ _ _ _ / | _ _ | | _ | | \ \ / \ \ / \n";
    return 0;
}

```

You are reminded of the following:

- Page 2 of 3

- The backslash symbol `\` should be printed specially: to print one `\`, you have to type `\\` in the program.

As an example, if your surname is Law and your student ID ends in 4698, then your program should print out 4698LAW in ASCII art as shown in Figure 2.

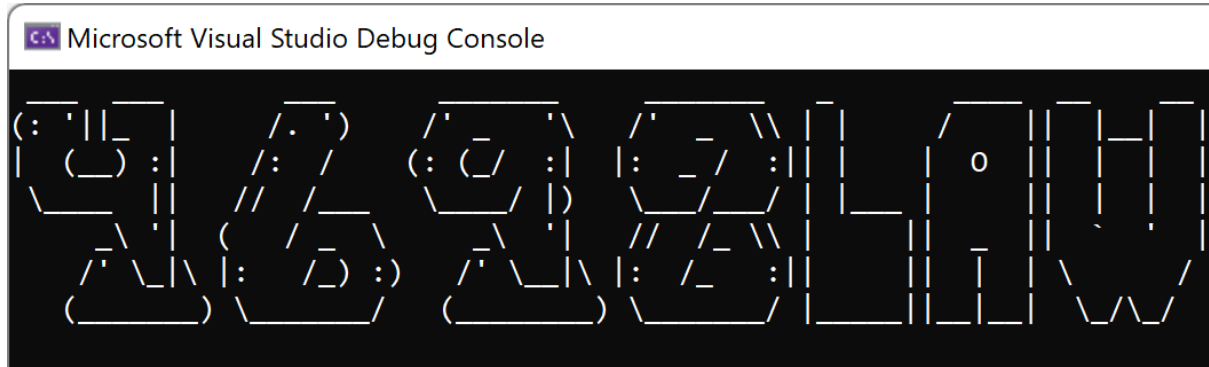


Figure 2: ASCII Art of 4698LAW

Submission and Marking

- Your program file name should be ascii.cpp. Submit the file in Blackboard (<https://blackboard.cuhk.edu.hk/>).
- You can submit your assignment multiple times. Only the latest submission counts.
- Your program should be *free of any typing mistakes and compilation errors/warnings*.
- **Do NOT plagiarize.** Sending your work to others is subjected to the same penalty as the copier.