

Assignment 1: ASCII Art

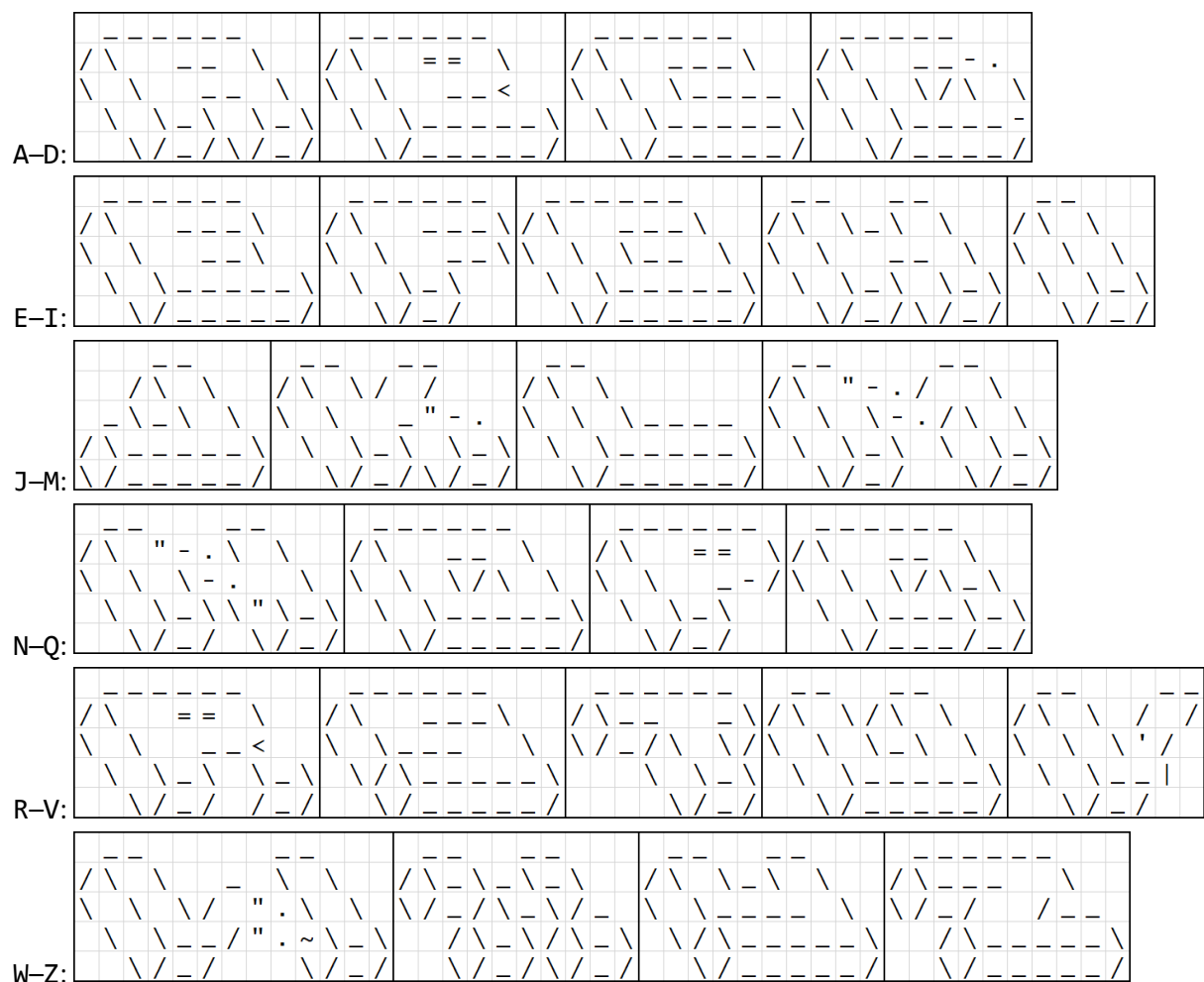
Due: 20:00, Tue 17 Sep 2019

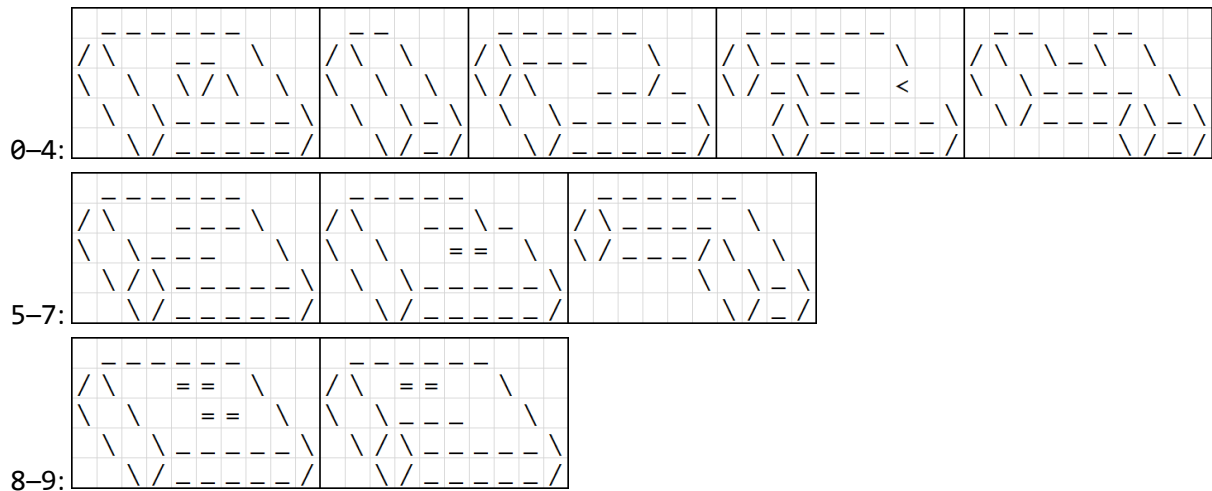
Full marks: 100

Introduction

This assignment allows you to become familiar with Visual Studio Community 2019. (Details on using Visual Studio can be found in Tutorial 1.) You will write a simple program to print out some text in *ASCII art* using `cout` statements.

The following shows the alphabets A–Z and digits 0–9 in ASCII art, which consists of the space and other symbols.





Program Specification

Open Visual Studio 2019 → “Create a new project” → “Console App”. Change the source file name to ascii.cpp. Modify the program in

```
/* CSCI1540
 *
 * Assignment: 1
 * Student ID:
 * Name      :
 * Email     :
 *
 * Please insert the above information in all future assignment submissions.
 */

#include <iostream>
using namespace std;

int main() {
    cout << "
    cout << "
    cout << "
    cout << "
    cout << "
    return 0;
}
```

Figure 1 so that it should print out your surname followed by the last four digits of your student ID in ASCII art. Please be reminded of the following:

- One letter/digit should immediately follow another letter/digit without any column of spaces in between.
- Do not confuse the underscore `_` and the minus sign `-`.
- Do not confuse the double-quote `"` and the single-quote `'`.
- The backslash `\` and double-quote `"` symbols should be printed specially. (E.g., to print one `"`, you should type `\` in the program.)

For example, if your surname is Law and your student ID is 1155980721, then your program should print out LAW0721 in ASCII art. Figure 2 shows the detailed ASCII art output of LAW0721.

```

/* CSCI1540
 *
 * Assignment: 1
 * Student ID:
 * Name      :
 * Email     :
 *
 * Please insert the above information in all future assignment submissions.
 */

#include <iostream>
using namespace std;

int main() {
    cout << " _____ \n";
    cout << "/\\ \\      /\\ _ \\ /\\ \\ _ \\ \\ /\\ _ \\ /\\ \\ \\n";
    cout << "\\ \\ \\ \\_ \\ \\ \\ _ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\_ \\ \\ \\ \\ \\ \\ \\n";
    cout << " \\ \\ \\_ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\n";
    cout << "  \\_\\_\\ / \\_\\_\\ / \\_\\ / \\_\\ / \\_\\_\\ / \\_\\_\\ / \\_\\_\\ \\n";
    return 0;
}

```

Figure 1: Program to be Modified

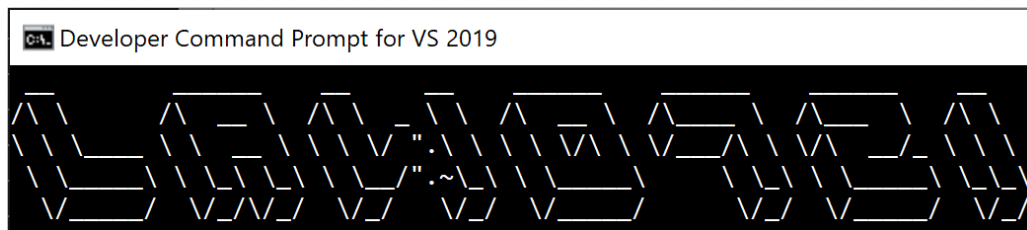
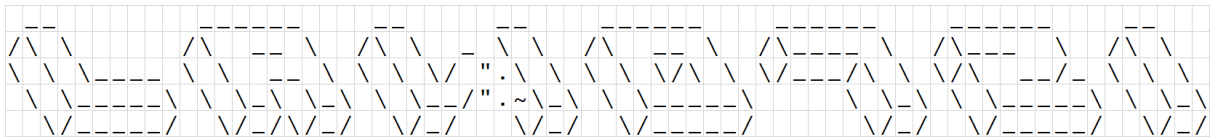


Figure 2: ASCII Art of LAW0721

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.
- Plagiarism is strictly monitored and heavily punished if proven. Lending your work to others for reference is considered as supplying a source for copying and is subjected to the same penalty as the copier. The policy and guidelines of CUHK on academic honesty can be found at <http://www.cuhk.edu.hk/policy/academichonesty/>.