

COMP710: Studio Session 09 – Exercise:

EXERCISE NAME: *C++ – INI Parser*

Create an **IniParser** class. The class is responsible for parsing an **.ini** file and allowing a client object to retrieve values stored in the **.ini** file.

Store the data in an appropriate container such as a **std::map**. The map key can be constructed by combining the section and the item's name.

For example, a **.ini** file containing:

```
[sectionName]
itemName = itemsValue
```

This would create a unique map key such as: **sectionName|itemName**, which will store the value: **itemsValue**.

Implement the following functionality:

```
bool LoadIniFile(const string& filename);
string GetValueAsString(const string& iniSection, const string& key);
int GetValueAsInt(const string& iniSection, const string& key);
float GetValueAsFloat(const string& iniSection, const string& key);
bool GetValueAsBoolean(const string& iniSection, const string& key);
```

To read a file using C++, use **std::ifstream** – the input file stream library, from the **#include <ifstream>** header.

Test your implementation thoroughly to ensure it is robust.