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**Data Structures and Algorithms II**

**Project 1**

**User’s Manual**

**Setup and Compilation**

1. Download and unzip the submission file from eLearning.
2. The submission file includes:
   * DataEncrypter.cpp
   * DataEncrypter.hpp
   * HashNode.cpp
   * HashNode.hpp
   * HashTable.cpp
   * HashTable.hpp
   * lastNames.txt
   * main.cpp
   * Makefile
   * UML.png
   * UserManual.docx
3. Environment: This program has been tested in the multi-platform lab and will run there.
4. Compiling: This program includes a Makefile. In the command line, type “make”. The program will create an executable file named project1.exe.

**Running the program:** Be sure that “lastNames.txt” exists in the same directory as the executable. Issue the command “./project.exe” in order to run the program. No command line arguments are required.

Format example of “lastNames.txt”:

SMITH 1.006 1.006 1

JOHNSON 0.810 1.816 2

WILLIAMS 0.699 2.515 3

**Output:** All output goes to the console. Output will be similar to:

Legal:

Userid Password Result

SMITH mxotcyqjh match

JOHNSON fygurcvbi match

WILLIAMS yfhpvjuhm match