SNHU CS-300 Analysis and Design

4-3 Project One Milestone Tw: Hash Table Data Structure

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Part 1: Reading Data from the file

Include fstream to open the file

Call to open file

If return value is -1, file not found

Else file is found

While not at the end of file

Read each line

If < two values on line

Return Error

Else read parameters

If >= 3 parameters

If 3 or more parameters are required

Continue

Else return Error

Close file()

Part 2: Creating Course Objects for Hashtable:

Initialize course vector<node>nodes

Create Hashtable class

Create insert method

Loop through file

While not end of file

For each line in file

For 1st and 2nd value

Create temporary items to hold values

If file has 3rd value

Add to current value

Call insert method for each value

Part 3: Searching and printing from hashtable

Ask user for input

Assign input to key

Loop through the vector

If key is found

Print course information

For each prerequisite of the course

Print prerequisite course information