Project One Milestone 2

Open File, Read Data, Parse Lines, and Validate Format:

Open file with the filename

If file cannot open

Print error

Exit

Create empty hash table ‘course’

For each line in file in file

Split line by “,” into tokens

If length of tokens < 2

Print error

Exit

For each prerequisite in tokens[2]

If prerequisite not in course

Print error

Exit

Course number = tokens[0]

Course title = tokens[1]

Prerequisites = tokens[2]

Create a course object

CourseNumber = course number

courseTitle = course title

prerequisites = prerequisites

add course object to courses with key = courseNumber

close file

return

Create Course Objects and Store in Hash Table:

Class Course:

courseNumber

courseTitle

prerequisites

createCourse(courseNumber, courseTitle, prerequisites)

create new course object

set course.courseNumber = courseNumber

set course.courseTitle = courseTitle

set course.prerequisties = prerequisites

return course

Print Course Information:

printCourses(courses)

for each courseNumber, course in courses

print “Course Number: “ course.courseNumber

print “Course Title: “ course.courseTitle

If course.prequisities is not empty

Print “Prerequisites: ““,” join(course.prerequisities)

Else

Print “Prerequisites: None”

Print new line