University of Science and Technology
Communications & Information Engineering Program
CIE 202: Fundamentals of Computer Programming

Zewail City of Science and Technology
ESTABLISHED 2000
INAUGURATED 2011

Fundamentals of Computer Programming
Lab 11
File I/O

Text book : "Tony Gaddis, starting out with c++ from control structures to objects 8th edition, Pearson Educational Limited 2015"

Problems

12.1) (File Head Program)

12.9) (File Encryption Filter)

12.10) (File Decryption Filter)

4) problem:

Write a program that reads info of students and store them in a file named "Students"
For each student the program should read from the user student name and grade and store them
The program read from the user it he enters a grade of -1
At this point the program prints file "Students" on the screen
Then the program opens a file "new_grades.txt" (you should create this file using any editor)
Each line in this file contains two numbers: an index and a grade
example:
7 35

This line means that grade of 7th student should be updated to 35
For each line in the file, the program updates the grade of the correspodning student in file "Students"
The finally the updated Students list is printed again

5) Extras:
    a) Think of a way to save multiple objects of the same class in a file
    b) use seekg() to find records efficiently assuming they are sorted in the input file
    i.e. If you have a file containing (1 2 5 6 12 45 55 60 70) find 45 efficiently
    hint: use binary search