

Lab 6 File Management

Learning outcome:

At the end of this lab, student should be able:

1. to analyze the problem and construct an object-oriented program by implementing Input/Output Class.

Dateline: Week 9 - depending on your lab hour/session. Submit to your demonstrator before the lab session ends. Upload to Putrablast.

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Question 1

- a) Write an application that allows the user to enter a series of friend's name and phone numbers and create a file to save the entered data.
- b) Write an application that reads the file created by the application in Question 1a and displays the record based on search keyword.

Please include any necessary exception handlers.

Question 2

Write a complete program that reads student's score from an input file. This file contains student's matric number, scores for the first test (15%), lab test (20%), quiz (15%), project (10%) and final exam (40%). Your program should calculate the total scores for each student and determine the grade based on the calculated total scores. Use the UPM grading scale. Write the student's matric number, total score and grade into output file.

Your program should have handling exception such as input file not found or output file already exists. Below is an example of input file and output file.

Input File

12345	15	20	15	9	36
67890	12	17	10	8	30
11223	12	18	12	9	32

Output File

12345	95	A
67890	77	A-
11223	83	A