

## Lab 11: I/O Streams

### ***Exercise 1: Create a Project***

1. Create a project called “lab11”
  - a) If you are using Eclipse create a project in Eclipse as we did in previous weeks.
  - b) If you are using text editor, create a “lab11” directory in “java” directory which is in your home directory.
2. Download the HW\_results.txt from the below link and put it in the project folder.  
[http://eng1.mu.edu.tr/~kilincceker/HW\\_results.txt](http://eng1.mu.edu.tr/~kilincceker/HW_results.txt)

### ***Exercise 2: Write an application which calculates the total class grade of each student and prints them to a file***

Class grade of a student is the weighted average of his/her homework, quiz, and exam scores. The weight for midterm is 25 % , for each homework 1,5 %, and for each quiz 2,5 %.

1. Write a class named GradeCalculator which has method named processScores having two parameters one for input file name and one for output file name
2. Implement processScores method
  - a) Open the input file for reading
  - b) Extract the column names from the first line in the file
  - c) Calculate the class grade of each student (each line contains the scores of each student)
  - d) Print the class grade of each student to output file with its student id.
3. Write a Main class which creates an instance of GradeCalculator and calls processScores with HW\_results.txt as the input file name parameter.