

# Assignment 2 Student Grades

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COMP 110 Object-oriented Programming

## 1. My Main Code's Algorithm

- 1- I import the classes which I need to use in my main class.
- 2- I generate a group which is root to draw rectangles in a group
- 3- I generate scene and writes its informations.
- 4- I generate a scanner and String fileName for scan the txt name.
- 5- I generate a Student(object) array to fill informations in from text file.
- 6- I generate a label (object) array to fill it in the informations which are students grades.
- 7- I generate a new rectangle.
- 8- I open a for loop to fill the student.txt's information in the rectangles and I optimized rectangles x and y axis.
- 9- I use primaryStage for write title name and generate the scene.
- 10- In the Student[] generateStudentArray method I do some operations about how many students in the file and parsing them into the arrays.

## 2. My Students Class' Algorithm

- 1- I generate a name string which is private and I generate a grades array which is public.
- 2- I generate Student constructor and equal this.name to name and do it for grades array.
- 3- I write getName method to return name.
- 4- I write setName method to use it in main method.
- 5- I write toString method to show me to informations in the text file.
- 6- I write setGrades method to input grades2 equal to grades.

### 3. Sample Outputs

In this section, I provide two outputs of my program. In Figure 1, You see program read file from students.txt. In Figure 2, The program read file from students2.txt.

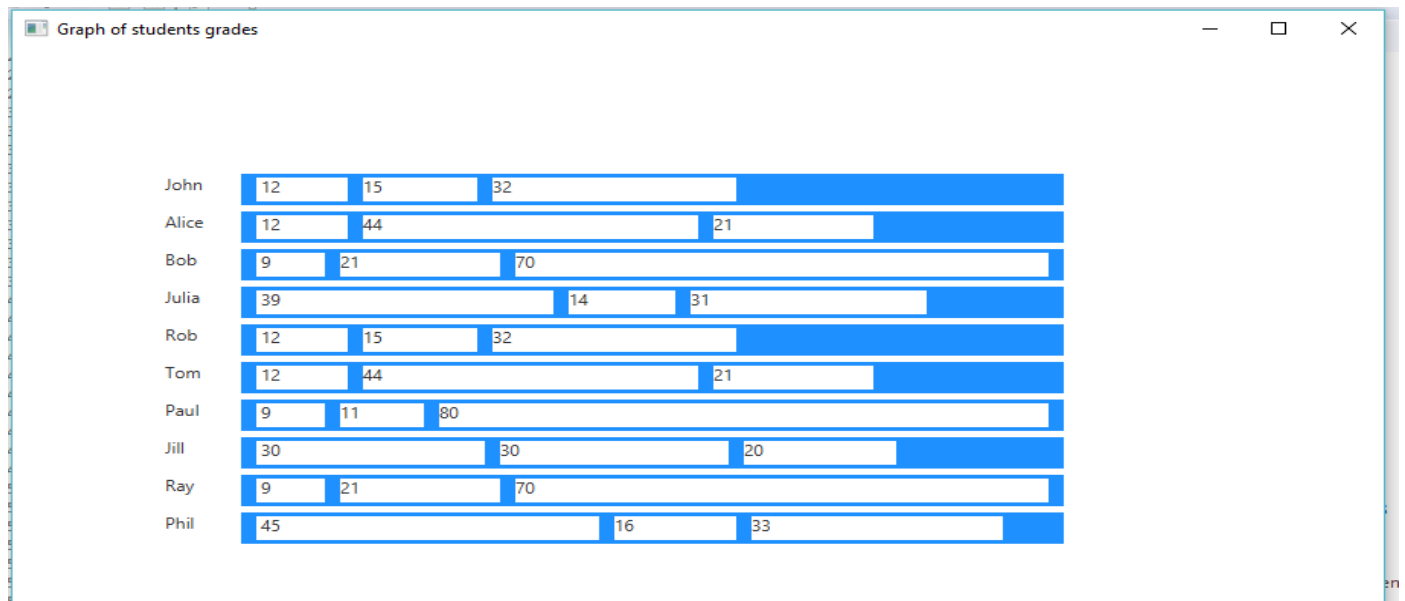


Figure 1. Read file from students.txt

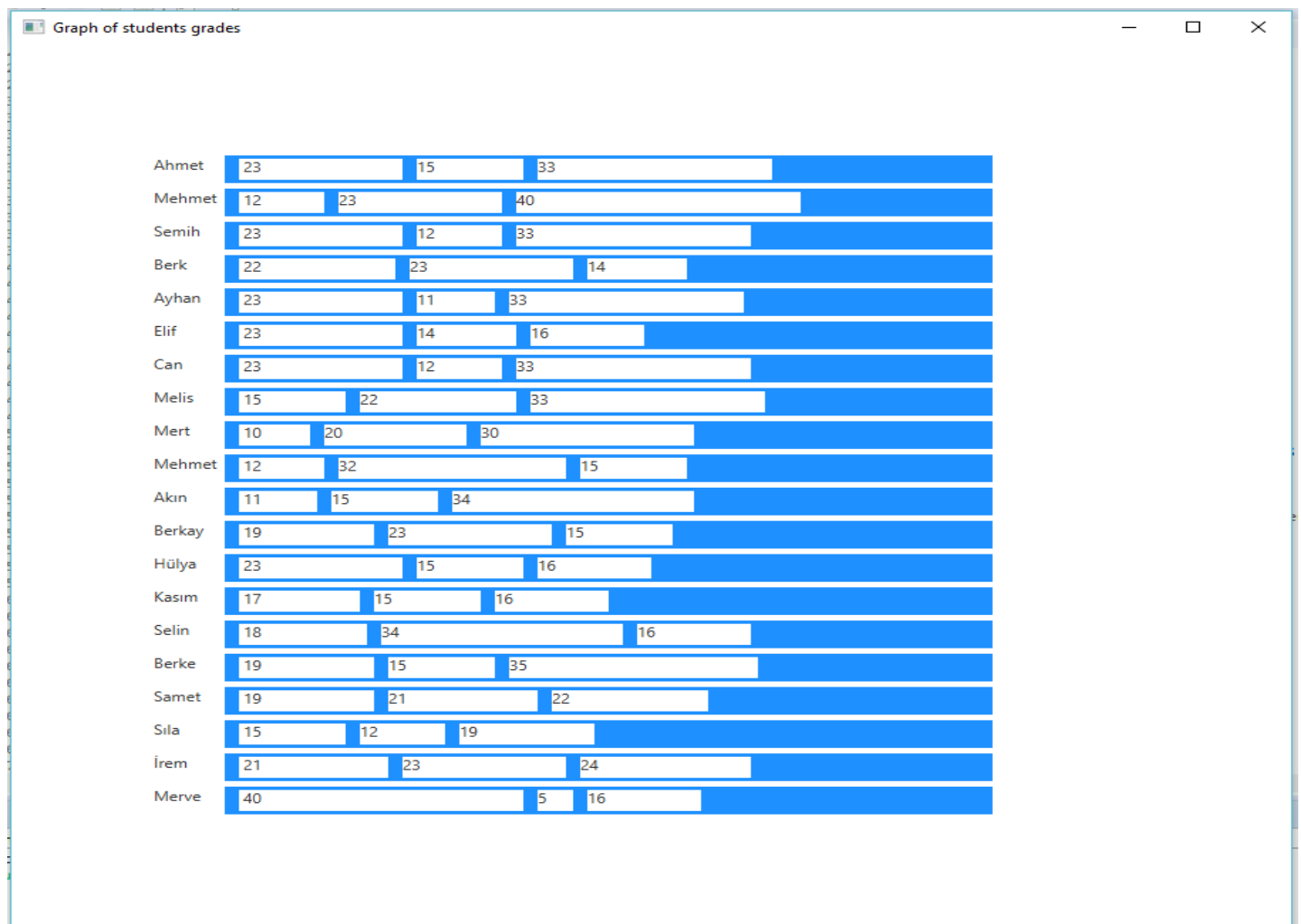


Figure 2. Read file from students2.txt