Midterm exam question

There are two binary files that need to be read in order to write a report about the grades of 8 students. The first binary file (namelist.dat) contains the student names, and the second binary file (grade.dat) contains midterm and final exam results. The following displays show the structure of these files.

Abdurrahman

Ali

Bassam

Hassan

Khalid

Nazeer

Yousef

Yazeed

Display 1. The content of namelist.dat

85

78

67

76

78

87

83

55

77

77

69

84

88

90

73

94

Display 1. The content of grade.dat

Note that the midterm and final exam results for each student are arrange one after another in grade.dat. So, for example the first and the second numbers in grade.dat (85 and 78) are the midterm and final exam results of the first student (Abdurrahman), the third and the fourth numbers (67 and 76) are the midterm and final exam results of the second student (Ali).

Write a Java program to read these two binary files. Then based on the information from these binary files, calculate grade for each student where the weights of midterm and final exams are 40% and 60% respectively, and calculate the averages of midterm exam, final exam, and the grades. Then save this information in a text file (results.txt). If your program is successful, then the content of the text file should be like the following, where the bold and italic fonts are some information that you add based on the information from the binary files above.

***Name Midterm exam(40%) Final exam(60%) Grade***

Abdurrahman 85.0 78.0 ***80.8***

Ali 67.0 76.0 ***72.4***

Bassam 78.0 87.0 ***83.4***

Hassan 83.0 55.0 ***66.2***

Khalid 77.0 77.0 ***77.0***

Nazeer 69.0 84.0 ***78.0***

Yousef 88.0 90.0 ***89.2***

Yazeed 73.0 94.0 ***85.6***

***Average 77.5 80.125 79.075***

Note that CreateNameListBinary.java and CreateGradeBinary.java files are provided for you to create namelist.dat and grade.dat in the case you could not correctly open these input files. If necessary, run these two java files using Eclipse, they will generate the two .dat files for you.