1. **file.txt** text file contains the line “Roger Federer, 41”. You have to read this data using an ifstream variable and the name Federer into one string variable, and then the number 41 into a seperate int variable.

**Sample Run:**



1. A text file **allstudentgrades.txt** has an arbitrary number of lines and each line has a student’s name, surname, student id, two midterm grades, and a final grade.

Write a C++ program to read from this file and calculate the total grades for each student (%30 for midterms and %40 for the final). Then write their name, surname, student id, two midterm grades, one final grade, and the total grades your program calculated in each line. Your output file should be named: **studentsFinalScores.txt**

**Here is the text file content that you can use to test your code:**

MAGIC JOHNSON 130805008 90 80 83.5

KOBE BRYANT 130805017 91 75 80.6

SHAQUILLE O’NEAL 130805004 96 65 75.85

SYDNEY WIESE 130805024 94 65 75.15

STEPHEN CURRY 130805019 70 75 73.25

LEBRON JAMES 130805018 91 55 67.6

**After the code is run, the file should look as follows:**

MAGIC JOHNSON 130805008 90 80 83.5 84.4

KOBE BRYANT 130805017 91 75 80.6 82.04

SHAQUILLE O’NEAL 130805004 96 65 75.85 78.64

SYDNEY WIESE 130805024 94 65 75.15 77.76

STEPHEN CURRY 130805019 70 75 73.25 72.8

LEBRON JAMES 130805018 91 55 67.6 70.84

1. In a text file, you must count the number of characters, words, lines, upper case characters, lower case characters, and blank characters. Then, display their total numbers on the screen.

You can create any file as an input file or use the given input.txt.

( **Here is the text file content that you can use to test your code:**

Football is one of the most popular sports in the world.

It is played in many countries and the rules are almost the same everywhere.

Basketball on the other hand is also widely loved, especially in the United States.

In tennis, players compete against each other using rackets and a ball.

Sports are important for maintaining a healthy lifestyle )