

For this coding assignment, you are required to write two different programs. Zip all (.java) files and upload a .zip file through Moodle before May 31st midnight.

Late submissions are not accepted!

First Program

For the first program, you will be required to code a Class (call it FirstProgram) with the 'main' method. Inside the 'main' method, you should do the following:

- 1) declare two ints ('firstInt', 'secondInt') and initialize them with values
- 2) declare a double ('doubleResult') and assign it firstInt/secondInt (firstInt divided by secondInt), then print it
- 3) next, reassign the variable 'doubleResult' the value of firstInt divided by secondInt but make sure that no data is lost (prevent truncation), then print the result
- 4) declare a double ('myDouble') and assign it a value
- 5) declare an int ('resultInt') and assign it the value of 'myDouble'. This can only be done with casting
- 6) declare three variable of type 'short', assign the third variable to be equal to the first two (casting may be required)

Make sure you comment your code!

Second Program

For the second program, you will be required to code the following:

- 1) Create a 'SecondProgram' class that includes the 'main' function
- 2) Create a 'Student' class with the following variables:
 - 1) firstName (String)
 - 2) lastName (String)
 - 3) gpa (double)
 - 4) age (int)
- 3) Create a constructor with the three following parameters:
 - 1) fullName: (full name String separated by a space), example: "Steve Jobs"
 - 2) gpa
 - 3) age
 - The constructor should assign the gpa and age according to the values provided in the parameters
 - The constructor then should break the full name into two strings (first name and last name) and assign their values accordingly.
 - To do that, you can first look for the space in fullName, then use the method substring(beginningIndex, endIndex) to break the String into subsets. For example, if we have: String company = "JetBrains", if you do the following: company.substring(2, 5), the result will be "tbr"
- 4) Lastly, create three instances of the Class 'Student' in your 'main' function and assign the instances/objects values through Student's constructor.

Make sure you comment your code!