Student Name: _____

<u>Short Exam - after 1 week - EXAMPLE 2</u>

Time: 1 hour
There are <u>3 questions</u> - you should answer on <u>at least 2 correctly</u> to get 80/100.
(To get 100 you should answer all questions correctly).
<u>Closed materials</u>! if you forgot something and need help, please ask the instructor.

<u>Question 1</u>

Implement a class named "School" with the following data:
    (1) <u>Id</u> of the School - String
    (2) <u>ArrayList of Students:</u> a Student has Name (String) and "Kita" (String)

Please make sure to use proper access modifiers (private, public etc.)

Implement the following methods inside class School:
[1] getStudentsByKita
    This method gets as an input: String kita
    The method shall return as an output an ArrayList of Students.

[2] getAllStudentsByKita
    This method gets no input parameter
    The method shall return as an output a Map of Students by Kita.

Question 2

Implement a Main class with a main method that prints all Strings which are a palindrome.
A palindrome is defined for this purpose as a word that can be read the same forward or
backward, ignoring case and ignoring spaces.
Examples:
- Ekalaka Lake
- Ward Draw
- Nan
Use helper methods.

Question 3

Implement a class for Resume (CV) with the following attributes:
- Person the Person whose this CV "belongs" to - Note: no need to implement the
  class Person, you can assume it is implemented elsewhere
- ArrayList of Occupations - a list of all relevant Jobs, a Job should have "from year"
  and "to year" (both would be just an int) and a Name (String)

Implement a method "getJobsInYear"
The method shall get as an input a year (int)
The method shall return List<Occupation> with all the Jobs the person was doing in this year
(might be an empty list, a list of one Occupation or a list of many).