## Programming III

Laboratory 7

## Objectives

- exceptions
- collections


## Exercises

1. Create the class Student that as a name, a class that it is in class should be between $[0,12]$ and a map that contains a subject and the notes at that subject. Notes should have values between $[1,10]$. Resolve the following requirements
a) Implement your own Exception class
b) Implement the student class and the fields that have restrictions
c) Create a list of students and display the list
d) Add a static function to student class that allows calculation of the mean for a student at a subject
e) Sort the list of the students based on general mean
f) Create a structure that can display the students that belong to same class and for each subject (for that class) the list of students that attend that subject. Ex:
i. class I:
2. Mathematics: Ionescu, Vasilescu,
3. Physics: Ionescu, Popescu
4. 

g) For each class find the student with maximum, minimum general mean
h) Using find algorithm from Collections find the student that attendances most subjects

