## Task 1:

- 1) context Register inv: self.year> 2019
- 2) context Register inv: self.className.startsWithDigitFrom1To9()
- 3) context Person inv: Pupil.age>6 and Teacher.age>20
- 4) context Person inv: self.name.length()>0 context Person inv: self.surname.length()>0
- 5) context Grade inv: Set{2,3,3.5,4,4.5,5}->includes(self.value) 6 and 7) -
- 8) context Register::averagOfSubject(subject:String): Real Body: sum(subject. grades)/count(subject. grades)

context Register::averageOfPupil(pupil:Pupil): Real

Body: sum(pupil. grades)/count(pupil. grades)

Task 2 Given answer: IsSelected:Boolean Test: Result: Real Test Definition: Title: String Subject: String Date: Date TimeFrom: DateTime TimeTo:DataTime Question: Description: String Score: Real Answer: Content: String IsCorrect: Boolean **Teacher Account:** Degree: String Account: Name:String Surname:String Login: String

Password: String

Student Account:

Album: Number

Faculty: String

Major: String

Active: Integer

<sup>\*</sup>Structure and operations are implemented is inside of the Java project