

## Exercise 01

There are 100 students in a degree program; each student may get a grade: bad, average, good, and excellent in mathematics, physics, and chemistry tests. Each student is given a total 180 minutes to finish all three tests. A teacher calculates each student intelligence quotient (IQ) based on the student's test results, the time taken by the student to finish the three tests, and the age of the students.

*From the given paragraph, please identify the following:*

1. What are the variables/features in the given problem? Distinguish discrete and continuous variables.
2. What are the input variables?
3. What is the target variable?
4. How many examples are in the given problem?
5. If you create a learning system what type of system that will be?