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Object Oriented Software Development Lab

Exercise 2 (10 Points)
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a) Please implement an **Arithmetic** class. The class should contain the methods in order to calculate the sum, product, subtraction and division of 2 integers.

b) Please implement the class TVSet. TVSet has following properties:
- Volume
- Channel
- flag whether the TV is on or off

All 3 properties should be changeable.

Please take by implementation over following tasks:
- change of the volume and of channel is possible only if the TV is on
- turn the TVSet in your program at least one time on. Change the volume. Change at least 5 times the channel and turn the TV off.
- Give the state of the TV after each change at the console out.
- Access the instance variables of the TVSet only over the methods.

Remarks:
To distinguish different cases you can use the if(condition) { statement } else {statement} java command.

IMPORTANT: Please implement some simple tests in a main method to make sure your program works as expected.

Upload
Once your program works correctly, please pack your source code (only Java-files) and upload it to Moodle (exercise2 upload).