## Exercise 3

In this exercise you learn about logic operators, one and two dimensional tables. You will also extend your knowledge about string processing by learning how to implement a simple cipher in JAVA and how to use the format function.

Please follow the lecture 3 and write every example from this lecture. For every example please execute the code.

- 1. Write and execute examples about logic operators.
- 2. Write and execute examples about one dimensional tables.
- 3. Write and execute examples about two dimensional tables.
- 4. Write and execute examples about the format function.
- 5. Write and execute example of Caesar cipher. Execute both the code for message encryption and for cipher decryption.

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6. Write a program that will compute the number of digits in a string. You can use Character.isDigit() method.

Example string is:

String passwd = "jdj8ns4k1ok";

7. Write a program that will compute the value of number  $\pi$  using only the pseudorandom generator. Use function Math.random and Math.sqrt.