

Assignment 1
Security Engineering
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Task 1

X

Task 2

- a) See hello_world.abd
- b) See calculator.adb and box_geometry.adb

Task 3

See calculator.adb, animals.adb and vowels.adb

Task 4

- a) The loops try to iterate over a range from 1 to 3 inclusive in two directions. In each step the current value of the loop parameter I is converted into a string and printed to the output. The 3th and 4th loop using the reverse keyword in front of the range to iterate in reversed order.
- b) The compiler generates two warnings, expressing two times that the loop range is zero and the loop will not execute. These two warnings occur at the second and fourth loop, which define a range 3..1. These loops result in zero iterations, because the start is bigger than the end bound. The case if the start has a higher value than the end, is defined to result in 0 iterations in Ada. Ada iterates only one step in one direction. To change the direction to backwards, the reverse keyword exists. Therefore, the first and third loop iterate as expected.