**LABORATORY 1**

**Question 1.3.1.** Can you name a language which has e REPL?

Python

**Running the examples:**

Text

Description automatically generated

**Exercise 1.9.1:** Consider the expression fact 5 – 1. What result do you expect to get?

120 – 1 = 119

Text

Description automatically generated

**Exercise 1.9.2:** Find 2 values for b, b1 and b2, such that b2 = b1 + 1 and slowAdd overflows for b2 but not for b1.

b1 = 9000; b2 = 18000

**Exercise 1.9.3:** Evaluate the following expression in the REPL:

fib 40 - 4.7 seconds

fib 45 - 42 seconds

fib 50 - 8’ 46’’

**Exercise 1.9.4:** Evaluate the following expressions in the REPL:

fibTail 50 – less than 1 second

fibTail 100 – less than 1 second

fibTail 1000 – less than 1 second

Text

Description automatically generated

**Exercise 1.10.2:**

Text

Description automatically generated

(Am descoperit aici ca nu exista operatorul modulo “%” in Elm, ci trebuie sa folosesc functia modBy. Am avut cateva erori pana cand m-am prins cum vin parametrii. 😊)

**Exercise 1.10.3:**

Text

Description automatically generated

**Exercise 1.10.1:**

Text

Description automatically generated