Programming Paradigms and Pragmatics (CS202)

LAB - 1

You are required to implement a Fibonacci number calculation for the 100th number using two programming paradigms: compiled (C/C++) and interpreted (Python). The implementation should execute 200 batches, each repeating the calculation 50 times. Once the programs are written, you will measure their execution times using appropriate timing tools. In C/C++, you can use clock_gettime() from <time.h> to measure time, and in Python, use time.time() from the time module. After running the programs, collect the execution times for multiple runs, average them, and present your findings in a comparison table.