Stochastic Modeling and Financial Mathematics

Quiz 1

1. (6 points) Very briefly describe what git is and what it is useful for.

2. (6 points) Consider n years, cash flows C_j (j = 1, ..., n) at the end of year j and assume a fixed interest rate r. With usual interest compounding, what are the present value PV and future value FV of this cash flow?

3. (2 points) Name two root finding algorithms that were discussed in class.

4. (6 points) Write python code to do the following. Create a numby array of the natural numbers from 0 to 99. Then create an array that contains the square of the natural numbers from 0 to 99. Display both arrays in the console.