Project 1 - Ex. 11

Summer Semester 2022/23

1. Write a Matlab m-file, which will calculate values of the following finite sum of numbers

$$\sum_{i=1}^{n} \frac{1}{i(i+1)(i+2)} = \frac{1}{1 \cdot 2 \cdot 3} + \frac{1}{2 \cdot 3 \cdot 4} + \dots + \frac{1}{n(n+1)(n+2)}$$

in two versions:

- a) fully sequential,
- b) distributed (using the parfor loop).
- 2. Run both programs for different values of n, e.g., n = 10000000, n = 100000000, n = 1000000000.
- 3. Compare results of calculations and execution times for all versions.
- 4. Write the report on your work and results.
- 5. Save the report and your Matlab files on server Studia, in module Reports, in report under the Project 1