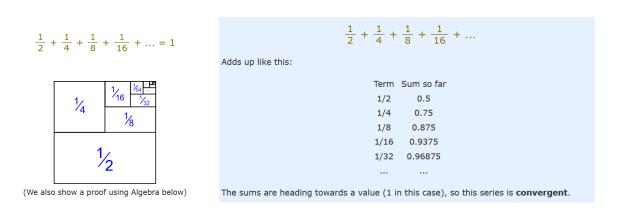
## HPC / Parallel Processing- 2021 Assignment 4 – MPI & OpenMP Sum of Convergent Series

Write c code to solve this problem using hybrid programming.

$$\sum_{n=1}^{\infty} \frac{1}{2^n} = \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots = 1$$

This problem from n = 1 to infinite will converge to 1 at the end try to reach this result and print the error value as your expected result = 1 (error = expected - calculated)



## **Deadline & Submission:**

- 1. The assignment is in groups of maximum 2.
- 2. Code must be in C and openMP & you must run itbefore sending.
- 3. Cheating could lead to serious consequences.
- 4. Late submission is not allowed.
- 5. Deadline: Thurs. 10/6/2021 11:59 PM

## Faculty of Computers and Information Cairo UniversitySpring-2021

## **Grading Criteria:**

Your code should be compiled without any errors or you will lose 50% of assignment grade, also the output of the run should be correct or you will lose 25% of the assignment grade.

Item	Points
Logic	2
mpi	4
openmp	4