Week 4 Sequences and Series Continued Lecture Note

Notebook:	Computational Mathematics		
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Cornell Notes	**Topic:** Sequences and Series Continued	Course: BSc Computer Science
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Essential Question:

What is a series?

Questions/Cues:

- What is a series?

Notes

Series

- Consider again a generic sequence $\{a_n\}$ with n=0,1,2….
  we can look at the sum of its elements
  $a_0,\ a_0+a_1,\ a_0+a_1+a_2,\ a_0+a_1+a_2+a_3,\ldots$
- These sums define another sequence $\{s_n\}$ n=0,1,2…
  with $s_n=a_0+a_1+\ldots a_n \rightarrow s_0=a_0,\ s_1=a_0+a_1,\ s_2=a_0+a_1+a_2,\ldots$
- $\{s_n\}$ is called a series, it is a type of sequence that is obtained as sum of the elements of another sequence
- A series is also indicated with $\sum \rightarrow s_n=\sum_{i=0}^{n} a_i$

Summary

In this week, we learned about what a series and how it necessary to have an original sequence in order to construct a series.