* Amortized analysis :-

→ It refers to the analysis where we determine the running time/space for a sequence of operations.

→ It is different from average asymptotic analysis because here we do not make any assumption about the data value, whereas in the asymptotic average analysis, we assume an overall average performance.

→ In amortized analysis we consider each operation & calculate the actual runtime.

→ This type of analysis is good for situations where an algorithm's perform some good operations & some bad operations.

→ It is a good way for analyzing complexities for those algorithms which perform very good in most of the cases but extremely bad in some cases.