**2. COMPUTER SCIENCE**

* **Bad reasons for using recursions for Fibonacci series**

Fibonacci is simply a sequence such that each number of the sequence is the sum of the two preceding numbers, and the sequence starts from 0 and 1 e.g. 0,1,2,3,5,8…. Recursion by definition is “when a thing is defined in terms of itself.” In this case we are referring to mathematical or programmatic functions. With respect to a programming function, recursion happens when a function calls itself *within its own definition.*It calls itself over and over again until a base condition is met that breaks the loop.

Its demerits arise when each *line of each call requiring its own stack, hence leading to memory exhaustion* or *max call stack size exceeded error also the longer processing* time as the number gets larger, due to a lot of pushing-popping going on underground. Its major advantage is that *recursion adds clarity and reduces the time needed to write and debug code.*