**Week 3**

Time complexity of algorithm means the deals with the quantification of the amount of time taken by a set of code or algorithm to process or run as a function of the amount of input.

BigO notation,

For any monotonic functions f(n) and g(n) from the positive integers to the positive integers, we say that f(n) = O(g(n)) when there exist constants c > 0 and n0 > 0 such that

f(n) ≤ c \* g(n), for all n ≥ n0