**Project Name - Longest increasing subsequence.**

**Write up**

The longest increasing subsequence problem is to find the length of the

longest subsequence of a given sequence.

**Steps:**

* To find LIS for a given array, we need to return max (L (i) where 0<i<n.
* The length of the LIS ending at index i, will be 1 greater than the maximum of lengths of LIS ending at indices before i.