\* Prime -> Divisible by 1 or itself. nor composite 1. (an 1 -) <= 1 2. lose 2 -> 1 E.g-> 50 < (7) k50 50 k 25\*2 2 \* 25 10\*5 5 4 10 \* Factor are repeating after 5 or =)  $|\sqrt{50}| = |7|$  » after 7 factors will repeat, so check till

Pseudocode

-> 2-> l\*i<=n L) check n/0 i = = 0 Loso not prime - After whole loop, not even a single divisor, then poime \* Time Comp; -> O (In) de Space Comp :- 0 (1)
(Entra space) le Significant clecrease in computation in Cox of Vory large number