to store aristan words to store n = lwoord 10 store 12 5 3 2 000 md 8 1 11 that when of their pages .. space complexity - n+3 ALPROL & 0 - notation (upper bound) F(n) = O(g(n))In this F(n) lies on or below cgen) where c is the constant. Archa John Ingank publice fook smith tong Bigo gives us a formal way of expressing upper bound.

Jest how to enactive in the ment to a + 1 - notation (lower bound) of 1000  $F(n) = \Omega(g(n))$ si-omega. lait harlail in this FCn) on or above c gcn) where c is tre constant omega gives us a formula way of expressing lower bound. parawa boats top apollationil acade apport surred \* A - notation ( some lorder) .  $F(n) = \Theta(g(n))$ In this Find les between chach) togen) cohere CI & C2 are constant. the theta notation is more precise than the both big oh & omega notation

```
SCP) = c + spcinstance) it was
c > Pixed part
          c > Pixed part
          spcinstance) > Variable pant
     example 1
     DAlgorithm abc (9,6,0)
      return a+b+b90+(a+b+c) (a+b)+403
     For every instance a woonds are required to
     store variables : q, b &c
     . Space complexity = 3
     enample 1
     Algorithm sum [ 9 (], n)
       5=0;
        For i= 1 to 12 do
         S = S+4[1];
        return s:
```