Musityungay mitity unjay suman a @ g mail - 6 m Page No.
Date Time and space complexity Assignment. 9nt Svm = 0; for CPnt S = 1 ; i < = n ; i + i >01 fate (Int j= 0; j <= n; j+) Som tt", time templexity = O(n2) to heduce time complexity we can use other mathematical fortimula to calculate T(n) = 3T(n-1) + 12n 7(0) = 5T(r) = 37(1-1) - 12(r)= 37(1-1) + 12(r) 3T(0) +12 $= 3 \times 5 + 12$

Page No. 03 -T(n) = T(n-1) +C T(n-1) = T(n-2) +C T(n) = T(n-2) + 2C - (1)T(n-2) = T(n-3) + G. $\bar{T}(n) = T(n-3) + 3c - (11)$ on observing. T(m) = T(n-K) + & RC n-K=1 n-1=KT(n) = T(n-n+1) + (n-1)C T(n) = T(1) + (n-1)CConstant Home task. f(n) = 0(n)





