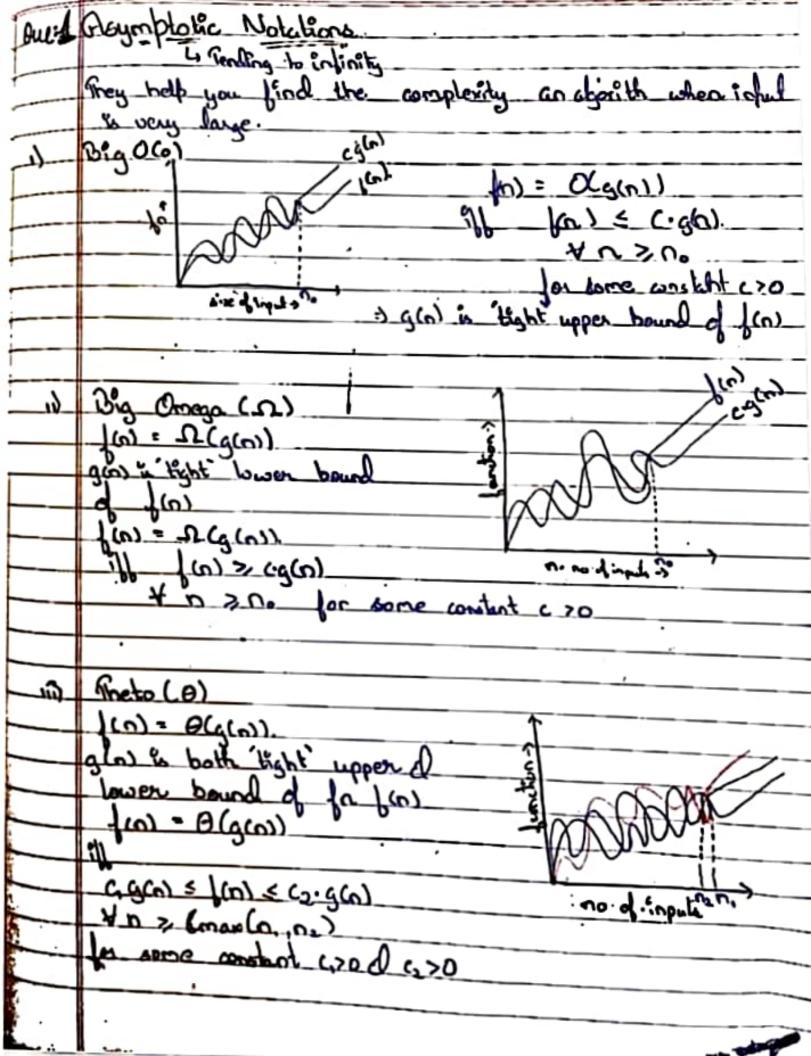
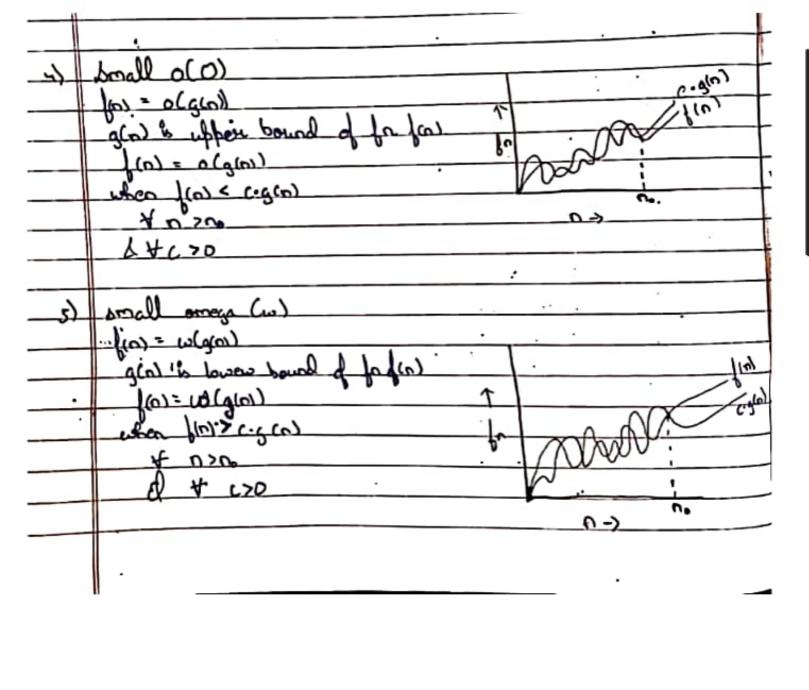
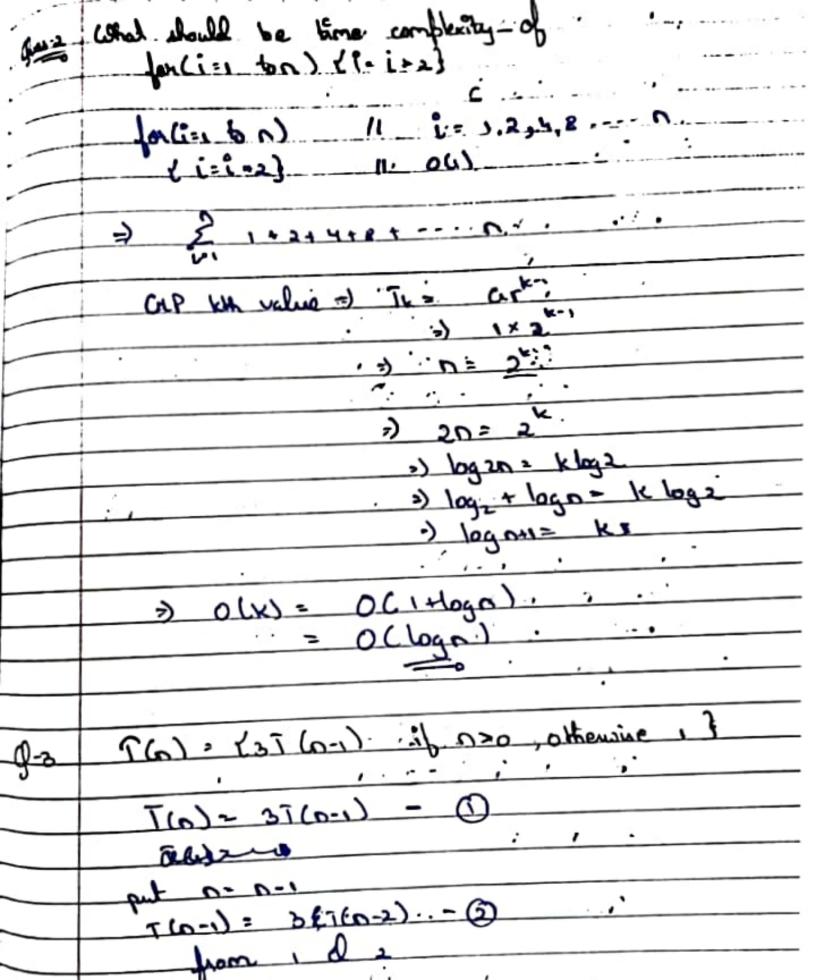
Tutorial - 1

Name .- Om Bhat Sie - CST SPL 2 Sen - IV clay Roll no. - 36 1) ri. Roll no. - 2017517 Pak - 10 March 2022





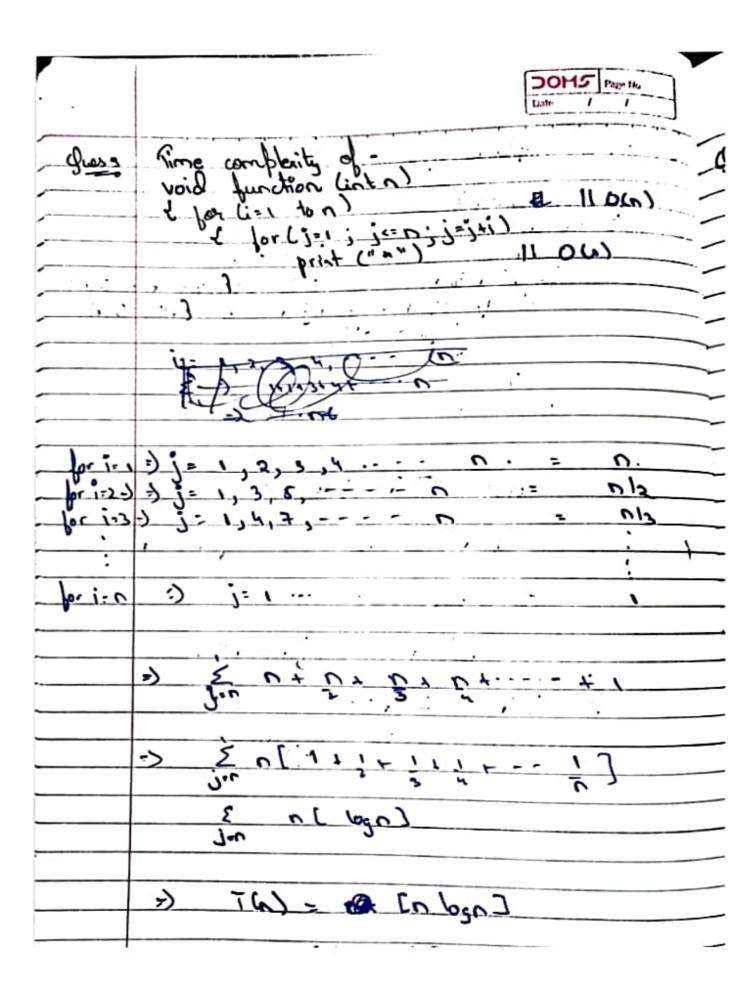


DOH15
pulling no now in O
(16-37) = 3(76-37) = (60) = (16-37
Detty n-k=0
3) T(a) = 3"[T(a-2)] - 1.
> T(n) = 13" x , [T(n).
4) I(n)= 22 I(n-1)-11/ 0>0, otherwise
T(n) = 2T(n-1)-1 - 0 Let $n = n-1$
=> I (n-1) = 2 T (n-2) - 1 - 0
=) -[(0) -2] = - (
3 7 (4) = 47 (4.2) - 2 - 1 - 3
let 0= n-2
=> T(n-2)= 27(n-3)-1 - 0.
from (3 d (5)
-5 -[1-(e-0)] + [2] (a)] · (a)
(a) I(a)= 87 (n-3)-4-2-1

	· · · · · · · · · · · · · · · · · · ·
₹.7 17-1	what should be fine complexity of
	int = 1, 4=1;
	while (1<=0)
	d i + ; b=b";
	print of ("#")
)
	1:1 2 3 1 5 6
	b = 14 3 = 6'+ 10 -15 11 21 10 ->0
A STATE	SO belomer
-	& Cholomes - 6
+	Sum of 4= 1+3+6+10+ AD -0
-	Also A 143 F 1 10 1111 F 111
-	from O-O
-	2
+	0= 1+2+3+44 0-10
-	=> Th= 1+2+3+4+ k
	5) 14 - 1+2+3+4+
+-	=> TK= } QK (Km)
-	exited,
+-	
4	=) for k iterations.
-	
-	14243+ + k <= n.
\perp	3 x (k+1) <= D.
L	
	=> k2+k < = #D
Ī	=> k2+k x = 4D
-	>> D(se ²) < = 0
	=) K = O(10)
	Samuel by CamScanner

11.001 (a) 7 (c. i., e Pine complexity of: d La Cinta) t in k, went-o; forli-nlajic-njii) for(1=1)j<=0;j-j~2) for(k=1; kx=1); k=16,5) condis

	DOM15 Page to
for k = k=2	
k= 1,2,4,8,' 0.	
$\mathcal{E}_{\mathcal{E}} = \frac{1}{2} \left(\frac{1}{2} \right)^{-1}$	
= 1(3,-1)	
> 1000 -> 2k.	
3	
j i	k
2 690	loso + logo
po	losn * logn
=> 0(n * logn * logn)	



The for functions, n'el in what is the asymptotic relation between these functions?

- assume that k=1, d c>1 are content.

Find out the value of a d no for which relation holds exe & water k < as