	Rollno-16 CE-5PL
	DAA Assignment-1
	I Asymptotic notation is used to describe the growth rate
	The commande used in computer science and also
	Asymptotic notation is used to describe the growth rate of a function as the input size increases to infinity.  Its commonly used in computer science and algorablysis to decribe its performance
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	There are 3 different type of asymptotic notation:
	sigo, sig mesa (e) and sig sirregalise
	a) Big O notation - It debrebedes (sibe worst case running)
-	b) pig or notation - Describes the best ownning time of
	of pig or Notation - Describes the best funning time of
	a program  () Big-() notation - It is computed by counting no. of
	() Big-S notation - It is computed by counting no. of iterations the algo always takes with an input n
1	time complexity is ologn)  Time T(n) = (3 T(n-1) if n > 0, otherwise)
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	Substitute T(n-1) be fixx eq T(n-2) J = 32 T(n-2) J = 32 T(n-2)
	$T(n) = 3[3T(n-2)] = 3^2 T(n-2)$
	$T = 3^{k} T (n-k)$
	Repeating untit we reach base (ase no
	T(n) = 3h T(o)
	as TO = constant
	T(n) = o(3)
	Therefore time complexity is O(3")
1	

