	DAA Handa On -3
	function $x = f(n)$
	$\chi_{z1}$
	for i=1:0
	for $j=1:n$
	7 = X + 1 .
1)	find the runtime of the algorithm mathematically let us Gunt the number of basic operations in terms of the autput size in"
Ans	let u Gunt the number of basic operations in terms of
	the output rize "n"
	This algorithm contains nested loops
	de la describer la describer de 10an
- (8)	and the inner loop of the nexted loop contains the operation
	êt is executed nxn times
	: runtime $T(n) = 1 + \mathcal{E} \mathcal{E} \mathcal{E} \mathcal{I}$
	$T(n) = 1 + \mathcal{E}\left(\hat{\mathcal{E}}_{j=1}\right)$
	inner summation -> Grutant
	$T(n) = 1 + \frac{2}{5}n$
	$\frac{1}{121} = \frac{1}{121} + \frac{1}{121} = \frac{1}{121}$
	T(n) = 1 + n(n)
	$T(n) = 1+n^{2}$
	Runtime of given algorithm is O(n2)