## Ans to the question no 62

Supposing that are take n=5 for code 1.

By running the code are get operations,  $2^{\circ}+2^{1}+2^{2}+2^{3}+2^{4}+2^{5}$ =  $(2^{5+1}-1)$ 

 $=(2^{n+1}-1)=(2^n)$  [n=5]

So, its time complexity is,  $o(2^n)$ 

By numing code 2 me get time complemity of O(n).

So, code 1 has a greater time complenity.

## Ans to the question no: 4

In problem 4, the matrin loop is the greatest, its time complexity will be,

$$T(n) = Ti(n) + Tj(n) + Tk(n)$$

$$= O(n) - \times O(n) \times O(n)$$

. 5447.8481- = 17. 1 = 11 . 8 c- . 2

= 0 (m3)

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