# Assignment 1

## Kamparaju Srikanth - EE18BTECH11023

Download all Codes from

```
https://github.com/srikanth2001/EE4013-C\_DS/\\tree/main/Assingnment-01/codes
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Download all latex-tikz codes from

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https://github.com/srikanth2001/EE4013-C_DS/blob/main/Assingnment-01/assignment1.tex
```

#### 1 Problem

(Q 22) Consider the following C fProgram.

The output of the program is?

#### 2 Solution

Answer: The output of the program is-19

### **Explanation**

Let consider that input **a** is a 2D matrix

$$a = \begin{bmatrix} 1 & 2 & 3 & 4 & 5 \\ 6 & 7 & 8 & 9 & 10 \\ 11 & 12 & 13 & 14 & 15 \\ 16 & 17 & 18 & 19 & 20 \end{bmatrix}$$

From the above matrix \*\*a represents the index of the element in  $1^{st}$  row  $1^{st}$  element i.e 1,

$$*(*(a+1+2)+3))$$
 (2.0.1)

in above equation (\*(a+3) +3) this represents the index of  $3^{rd}$  column of  $3^{rd}$  row in the matrix a. Hence the Output the output will  $4^{th}$  column of  $4^{th}$  row Element of the matrix a i.e 19

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