

$$\frac{n + \text{sum}(n)}{n + \text{sum}(n)}$$

$$\begin{array}{c} \text{sum}(1) \\ \longrightarrow \\ \text{sum}(0) - 1 \\ \text{sum} \end{array}$$

Set A (1PM – 2PM)

Q.1. Write a C program to access two dimensional array using pointers. [40 Marks]

Input: Accessing 2D array using pointers:

1 2 3
4 5 6
7 8 9

$$*(arr + 1) + 1$$

Output: Accessing individual elements using pointers:

arr[0][0] = 1

arr[1][1] = 5

arr[2][2] = 9

$$\begin{array}{c} arr[4] \\ s[i] = *(s+i) \end{array}$$

$$s[i] = *(s+i)$$

Q.2. Write a program in C to calculate the sum of numbers from 1 to n using recursion. [30 marks]

Input: The last number of the range starting from 1 : 5

Output: The sum of numbers from 1 to 5 : 15