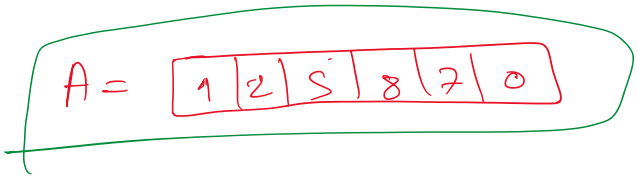
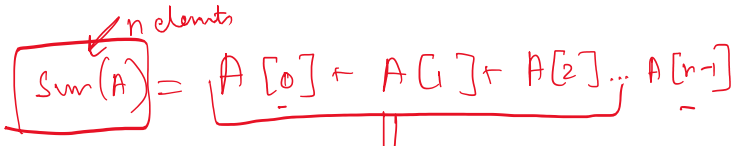
Sum of Array

Given an array find its Sum.

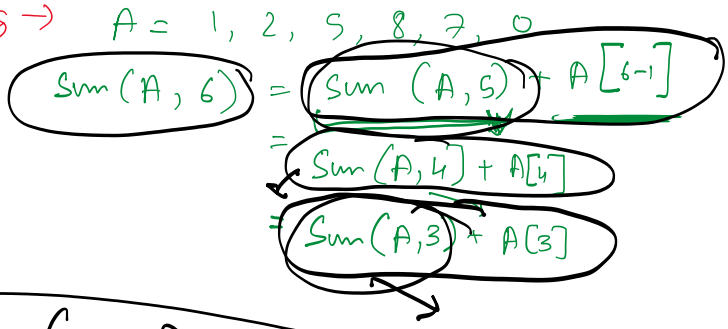


1. Base Condition
2. Divide the problem
3. Combine the solution



$$Sum(A, n) = Sum(A, n-1) + A[n-1]$$

Eg → A = 1, 2, 5, 8, 7, 0



$Sum(A, 0) = 0$ ← Base Condition

$S(A, n) = Sum(A, n-1) + A[n-1]$ ← Recursive Step

```
def sum_of(arr, n):
    #base conditon
    if n == 0:
        return 0
```

```
    else:
        return sum_of(arr, n-1) + arr[n-1]
```