

## 1. Write a Python Program to find sum of array?

In [1]:

```
1 arr=[1,2,3,4,5]
2 sum_of_array=sum(arr)
3 print(sum_of_array)
```

15

## 2. Write a Python Program to find largest element in an array?

In [3]:

```
1 arr=[9,5,6,7,4,5]
2 large=max(arr)
3 print(large)
```

9

## 3. Write a Python Program for array rotation?

In [2]:

```
1 def rotating_array(arr, k):
2     n = len(arr)
3     k = k % n
4     new_arr = []
5     for i in range(k, n):
6         new_arr.append(arr[i])
7     for i in range(k):
8         new_arr.append(arr[i])
9
10    return new_arr
11
12 array = [1, 2, 3, 4, 5]
13 count = 2
14
15 final_array = rotating_array(array, count)
16 print("first array:", array)
17 print("final array:", final_array)
18
```

first array: [1, 2, 3, 4, 5]

final array: [3, 4, 5, 1, 2]

## 4. Write a Python Program to Split the array and add the first part to the end?

In [14]:

```
1 arr=[1,2,3,4,5]
2 arr1=arr[:2]
3 arr2=arr[2:]
4 arr=arr2+arr1
5 print(arr)
```

```
[1, 2]
```

```
[3, 4, 5]
```

```
[3, 4, 5, 1, 2]
```

## 5. Write a Python Program to check if given array is Monotonic?

In [19]:

```
1 arr=[1,2,10,4,5]
2 #Monotonic means either elements in array are continuously increasing or decreasing
3
4
5 if all(arr[i]<arr[i+1] for i in range(len(arr)-1)) or all(arr[i]>arr[i+1] for i in range(len(arr)-1)):
6     print("array is Monotonic")
7 else:
8     print("array is not monotonic")
```

```
array is not monotonic
```