

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

Ans:

```
In [8]: 1 a = list(map(int, input("elements of array:-").strip().split()))
2 s=0
3 for i in range(0,len(a)):
4     s = s + a[i]
5 print('Sum of all the elements of the array: ',s)
```

```
elements of array:-1 2 54 76 73 2 4
Sum of all the elements of the array: 212
```

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

Ans:

```
In [1]: 1 a = list(map(int, input("elements of array:-").strip().split()))
2 lar = a[0]
3 for i in range(1,len(a)):
4     if a[i]>lar:
5         lar = a[i]
6 print('Largest element of the array: ',lar)
```

```
elements of array:-1 23 43 7 17
Largest element of the array: 43
```

3. Write a Python Program for array rotation?

Ans:

```
In [13]: 1 a = list(map(int, input("elements of array:").strip().split()))
2 print(a[::-1])
```

```
elements of array:11 15 17 22
[22, 17, 15, 11]
```

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

Ans:

```
In [22]: 1 a = list(map(int, input("elements of array:").strip().split()))
2 print('Enter position for split:')
3 s = int(input())
4 n = len(a)
5 def split(a,n,s):
6     for i in range(0,s):
7         temp = a[0]
8         for j in range(0, n-1):
9             a[j] = a[j + 1]
10            a[n-1] = temp
11 split(a,len(a),s)
12 for i in range(0, n):
13     print(a[i], end = ' ')
```

```
elements of array:1 34 65 2 4 13 76
Enter position for split:
2
65 2 4 13 76 1 34
```

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

Ans:

```
In [24]: 1 a = list(map(int, input("elements of array:").strip().split()))
2 n = len(a)
3 def Monotonic(a):
4     return (all(a[i] <= a[i + 1] for i in range(n-1)) or
5             all(a[i] >= a[i + 1] for i in range(n-1)))
6 print(Monotonic(a))
```

```
elements of array:11 15 17 22
True
```