

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

```
In [1]: a=[1,2,3,4,5]
```

```
In [8]: s=0
for i in range(len(a)):
    s+=a[i]
    #print(i)
print("Sum of array {} is {}".format(a,s))
```

Sum of array [1, 2, 3, 4, 5] is 15

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

```
In [20]: a=[12,14,9,21,7]
```

```
In [68]: t=0
for i in range(len(a)):
    temp=a[i]
    for j in range(len(a)):
        if temp > a[j]:
            #print(t)
            #print("temp", temp)
            t=temp
            break

print(t)
```

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```
In [17]: for i in range(len(a)-1):
          t=0
          if a[i]> a[i+1]:
              t=a[i]
          else:
              t=a[i+1]
          print(t)
```

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3. Write a Python Program for array rotation?

```
In [71]: arr=[1,2,3,4,5]
```

```
In [74]: a=-1
          b=[]
          while a>=-len(arr):
              b.append(arr[a])
              #print(arr[a])
              a=a-1
          print(b)
```

[5, 4, 3, 2, 1]

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

```
In [2]: arr=[1,2,3,4,5]
```

```
In [27]: def split(n,a):
          a1=[]
          b1=[]
          for i in range(n):
              a1.append(a[i])
          print("Splited array is {} as the split value is {}".format(a1,n))
          for j in range(n,len(a)):
              b1.append(a[j])
          for k in range(len(a1)):
              b1.append(a1[k])
          print(b1)
```

```
In [28]: split(2,arr)
```

Splited array is [1, 2] as the split value is 2
[3, 4, 5, 1, 2]

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

```
In [116]: def mono(arr):
          c=1
          d=1
          for i in range(len(arr)-1):
              if arr[i]<arr[i+1]:
                  c+=1
              elif arr[i]>arr[i+1]:
                  d+=1
          #print(c,d)
          if c==len(arr) or d==len(arr):
              print("Array {} is monotonic".format(arr))
          else:
              print("Array is not monotonic")
```

```
In [117]: ar1=[1,5,2,6,8]
```

```
In [119]: mono(ar1)
```

Array is not monotonic

```
In [118]: ar2=[1,3,5,6]
```

```
In [120]: mono(ar2)
```

Array [1, 3, 5, 6] is monotonic

```
In [ ]:
```