## **Assignment 7 Solutions**

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

```
In [4]:
    def sumOfArray():
        in_arr = eval(input("Enter the Array: "))
        print(f'The sum of {in_arr} is {sum(in_arr)}')
        sumOfArray()

Enter the Array: [1,2,3,4,5]
The sum of [1, 2, 3, 4, 5] is 15
```

2. Write a Python Program to find Largest element in an Array?

```
def largestElement():
    in_arr = eval(input("Enter the Array: "))
    print(f"The Largest Element in {in_arr} is {sorted(in_arr, reverse=True)[0]}")

largestElement()

Enter the Array: [2,3,4,5,6]
The Largest Element in [2, 3, 4, 5, 6] is 6
```

3. Write a Python Program for array rotation?

```
In [7]:
    def reverseOfArray():
        in_arr = eval(input("Enter the Array: "))
        print(f"The Reverse of Array {in_arr} is {in_arr[::-2]}")
    reverseOfArray()

Enter the Array: [13,17,12,14,40]
    The Reverse of Array [13, 17, 12, 14, 40] is [40, 12, 13]
```

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

```
def sumOfSplits():
    in_arr = eval(input("Enter the Array: "))
    print(f"The Sum of First and Last Elements of Array {in_arr} is {in_arr[0]+in_arr[-1]}")
    sumOfSplits()

Enter the Array: [12,14,17,7,19]
The Sum of First and Last Elements of Array [12, 14, 17, 7, 19] is 31
```

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

In [ ]:

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