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1. Write a Python Program to find sum of Array ?
In [1]: 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 ?
In [2]: 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: 1,2,3,4,5
        The Largest Element in (1, 2, 3, 4, 5) is 5
        3. Write a Python Program for array rotation ?
In [3]: def reverseOfArray():
            in arr = eval(input("Enter the Array: "))
            print(f"The Reverse of Array {in arr} is {in arr[::-1]}")
        reverseOfArray()
        Enter the Array: 1,2,4,5,6
        The Reverse of Array (1, 2, 4, 5, 6) is (6, 5, 4, 2, 1)
        4. Write a Python Program to Split the array and add the first part to the
        end ?
In [4]: 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]-
        sumOfSplits()
        Enter the Array: 2,4,6,7,9
        The Sum of First and Last Elements of Array (2, 4, 6, 7, 9) is 11
        5. Write a Python Program to check if given array is Monotonic ?
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In [5]: def checkMonotonic():
            in_arr = eval(input("Enter the Array: "))
            if(all(in_arr[i]<=in_arr[i+1] for i in range(len(in_arr)-1)) or all(in_arr[</pre>
                print(f'Array {in_arr} is Monotonic')
            else:
                print(f'Array {in_arr} is Not Monotonic')
        checkMonotonic()
        checkMonotonic()
        Enter the Array: 2,4,7,9,23
        Array (2, 4, 7, 9, 23) is Monotonic
        Enter the Array: 7,3,78,5
        Array (7, 3, 78, 5) is Not Monotonic
In [ ]:
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