1. **Python Program for Find reminder of array multiplication divided by n**

```
def findremainder(arr, lens, n):
        mul = 1
        for i in range(lens):
                mul = (mul * (arr[i] % n)) % n

        return mul % n

# Driven code
arr = [ 100, 10, 5, 25, 35, 14 ]
lens = len(arr)
n = 11

print( findremainder(arr, lens, n))
```

2. **Python Program to check if the given array is Monotonic**

```
def isMonotonic(A):

        return (all(A[i] <= A[i + 1] for i in range(len(A) - 1)) or
                        all(A[i] >= A[i + 1] for i in range(len(A) - 1)))

# Driver program
A = [6, 5, 4, 4]

# Print required result
print(isMonotonic(A))
```

3. **Python program to interchange first and last elements in a list**

```
def swapList(newList):
        size = len(newList)

        # Swapping
        temp = newList[0]
        newList[0] = newList[size - 1]
        newList[size - 1] = temp

        return newList
```

```
# Driver code
newList = [12, 35, 9, 56, 24]

print(swapList(newList))
```

4. **Python program to swap two elements in a list**

```
def swapPositions(list, pos1, pos2):

        list[pos1], list[pos2] = list[pos2], list[pos1]
        return list

# Driver function
List = [23, 65, 19, 90]
pos1, pos2 = 1, 3

print(swapPositions(List, pos1-1, pos2-1))
```

5. **write a program to find the length of the list**

```
a = []
a.append("Hello")
a.append("Guys")
a.append("how")
a.append("are you")
print("The length of list is: ", len(a))
```

6. **write a program to check if an element exists in the list**

```
# Initializing list
test_list = [10, 15, 20, 7, 46, 2808]

print("Checking if 15 exists in list")

# number of times element exists in list
exist_count = test_list.count(15)

# checking if it is more then 0
if exist_count > 0:
```

```
        print("Yes, 15 exists in list")
else:
        print("No, 15 does not exists in list")
```

7. **write a program to clear a list in Python**

```
# Creating list
SP = [6, 0, 4, 1]
print('GEEK before clear:', SP)

# Clearing list
SP.clear()
print('GEEK after clear:', SP)
```

8. **write a program to Reversing a List**

```
def Reverse(lst):
        return [ele for ele in reversed(lst)]


lst = [10, 11, 12, 13, 14, 15]
print(Reverse(lst))
```

9. **write a program to find the sum of elements in list**

```
def multiplyList(myList) :


        # Multiply elements one by one

        result = 1

        for x in myList:

                result = result + x

        return result
```

```
list1 = [1, 2, 3]
list2 = [3, 2, 4]
print(multiplyList(list1))
print(multiplyList(list2))
```

10. write a program to Multiply all numbers in the list

```
def multiplyList(myList) :

    # Multiply elements one by one
    result = 1
    for x in myList:
        result = result * x
    return result

# Driver code
list1 = [1, 2, 3]
list2 = [3, 2, 4]
print(multiplyList(list1))
print(multiplyList(list2))
```