

Exercise 1 – Write a program that generates a list of 20 random numbers between 1 and 100. Remove the first and last items from the list, sort the remaining items, and print the result.

Program –

```
import random
ls = []
for _ in range(20):
    value = random.randrange(1, 100)
    ls.append(value)
ls.pop(0)
ls.pop(len(ls)-1)
ls.sort()
print(ls)
```

Exercise 2 – Write a program to Increment Numeric Strings by 6.

Program –

```
A = list(map(str, input().split()))
for i in range(len(A)):
    if(A[i].isdigit()==True):
        A[i] = int(A[i])
        A[i] += 6
        A[i] = str(A[i])
    else:
        continue

print(A)
```

Exercise 3 – Write a program to find the sum of Characters ascii values in String List.

Program –

```
A = list(map(str, input().split()))
result = []
for i in A:
    summ = 0
    for j in range(len(i)):
        summ+=ord(i[j])
    result.append(summ)
print(result)
```

Exercise 4 – Write a program to print element with maximum vowels from a List.

Program –

```
A = list(map(str, input().split()))
vowels = "aeiouAEIOU"
vowelCountList = []
for i in A:
    vowelCount = 0
    for j in vowels:
        vowelCount += i.count(j)
    vowelCountList.append(vowelCount)

print(A.pop(vowelCountList.index(max(vowelCountList))))
```

Exercise 5 – Input Strings list, write a Python program to filter all the strings which have a similar case, either upper or lower.

Input: ["Hello", "MOM", "Hi", "dad", "Python"]
Output: ["MOM", "dad"]

Program –

```
A = list(map(str, input().split()))

result = []

for i in A:
    if(i.islower()==True or i.isupper()==True):
        result.append(i)

print(result)
```