6/4/2021 Trabajo 01

# TRABAJO EN CLASE 01

## Generar una lista de numeros aleatorios

```
In [1]: import random
import statistics

In [2]: lista = []
for i in range (100):
    lista.append(random.randrange(1, 99))
    print (lista)

[19, 80, 3, 5, 72, 68, 83, 13, 89, 87, 6, 29, 27, 58, 77, 57, 40, 29, 45, 60, 72, 1
    8, 43, 77, 54, 82, 17, 86, 12, 59, 94, 33, 84, 23, 19, 12, 96, 89, 93, 84, 84, 2, 4
    6, 6, 21, 50, 26, 40, 3, 4, 88, 6, 78, 28, 7, 2, 6, 47, 73, 47, 42, 95, 48, 95, 70,
    93, 79, 58, 88, 83, 6, 76, 59, 37, 17, 40, 8, 13, 53, 45, 38, 89, 56, 30, 75, 53, 7
    2, 9, 96, 52, 30, 46, 3, 97, 45, 49, 66, 88, 54, 65]
```

# Obtener el promedio, la sumatoria, el numero mayor y menor

#### **Promedio**

# Sumatoria

```
In [4]:
    suma = sum (lista)
    print ("Sumatoria: ", suma)

Sumatoria: 4976
```

## Mayor y Menor

```
In [5]:
    mayor = lista[0]
    menor = lista[0]
    for x in lista:
        if lista[x] > mayor:
            mayor = lista[x]

    for y in lista:
        if lista[y] < menor:
            menor = lista[y]

    print ("Numero mayor --->", mayor)
    print ("Numero menor --->", menor)
```

Numero mayor ---> 97 Numero menor ---> 3

### **Numeros Primos**

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```
In [6]:
         def primo(num):
             cont=0;
             for i in range(1,num):
                 if(num%i==0):
                     cont+=1
                     if cont>1:
                         return False
             return True
         primos = []
         for i in lista:
             if i!=1:
                 if primo(i):
                     primos.append(i)
         print ("Lista de numeros primos: ",primos)
        Lista de numeros primos: [19, 3, 5, 83, 13, 89, 29, 29, 43, 17, 59, 23, 19, 89, 2,
        3, 7, 2, 47, 73, 47, 79, 83, 59, 37, 17, 13, 53, 89, 53, 3, 97]
In [ ]:
```