

2.Bucles_listas_tuplas_diccionarios

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1 Bucles

1.1 while

```
[3]: i = 0
while (i < 4):
    j = 0
    while(j < 3):
        print("Soy menor a 3")
        j = j + 1
    print(i)
    i = i + 1
```

```
Soy menor a 3
Soy menor a 3
Soy menor a 3
0
Soy menor a 3
Soy menor a 3
Soy menor a 3
1
Soy menor a 3
Soy menor a 3
Soy menor a 3
2
Soy menor a 3
Soy menor a 3
Soy menor a 3
3
```

1.2 for

```
[7]: prueba = range(5)
prueba
```

```
[7]: range(0, 5)
```

```
[8]: for i in range(5):  
      print(i)
```

0
1
2
3
4

```
[9]: for i in "hola":  
      print(i)
```

h
o
l
a

```
[12]: for i in range(5):  
       print(i)  
       if (i > 2):  
           break
```

0
1
2
3

```
[15]: i = 0  
while (i < 10):  
    if (i == 3):  
        break  
    print(i)  
    i = i + 1
```

0
1
2

```
[18]: i = 0  
while (i < 10):  
    if (i == 3):  
        i = i + 1  
        continue  
    print(i)  
    i = i + 1
```

0
1
2

4
5
6
7
8
9

2 Listas

```
[24]: lista = ["Tu", "nombre", "es", "Daniel"]  
      # Acceder a elementos en especifico de la lista  
      lista[0:2]  
      lista[2]
```

```
[24]: ['Tu', 'nombre', 'es', 'Daniel', 5]
```

Agregar elemento a lista:

```
[25]: lista.append(5)
```

```
[27]: lista2 = [8, 4, 6, 6.2]
```

Unir listas:

```
[28]: lista.extend(lista2)
```

```
[29]: lista
```

```
[29]: ['Tu', 'nombre', 'es', 'Daniel', 5, 5, 8, 4, 6, 6.2]
```

obtener el indice de un elemento:

```
[31]: lista.index(5)
```

```
[31]: 4
```

Eliminar un elemento:

```
[32]: lista.remove("Daniel")
```

```
[33]: lista
```

```
[33]: ['Tu', 'nombre', 'es', 5, 5, 8, 4, 6, 6.2]
```

Eliminar el ultimo elemento de la lista:

```
[34]: lista.pop()
```

```
[34]: 6.2
```

```
[36]: lista
```

```
[36]: ['Tu', 'nombre', 'es', 5, 5, 8, 4, 6]
```

2.1 Matrices

```
[42]: lista3 = [[5, 12, 3], [4, 6, 9]]
      lista3
```

```
[42]: [[5, 12, 3], [4, 6, 9]]
```

```
[44]: lista3[0][1]
      lista3[0][2]
```

```
[44]: 3
```

2.2 Tuplas

```
[45]: tupla = (1, 2, 3)
```

NO se pueden expandir

```
[46]: tupla.append(2)
```

```
-----
AttributeError                                Traceback (most recent call last)
<ipython-input-46-279364ade3a6> in <module>
----> 1 tupla.append(2)

AttributeError: 'tuple' object has no attribute 'append'
```

```
[47]: tupla = list(tupla)
```

```
[48]: tupla.append(2)
```

```
[49]: tupla
```

```
[49]: [1, 2, 3, 2]
```

Convertir lista a tupla

```
[50]: lista4 = [1, 2]
      nuevatupla = tuple(lista4)
```

```
[51]: nuevatupla
```

```
[51]: (1, 2)
```