

# S01 T01: Jupyter Notebook i Markdown



In [1]:

```
a = 11
b = 2.2
c = 'x'
d = "Hola"
e = '5'

print(type(a))
print(type(b))
print(type(c))
print(type(d))
print(type(e))

print(a + b)
print(type(a + b))

print(a + a)
print(type(a + a))

print(a/2)
print(type(a/2))

m = int(a)/int(2)
print(m)
print(int(m))
print(int(b))

print(b*5)
print(type(b*5))

print(a%2)
print(b%2) #??

e=int(e)
print(e)
print(type(e))

num = 10
print(type(num))
converted_num = "{}".format(num) #No se porque no deja usar str(num)

print(type(converted_num))
```

```
<class 'int'>
<class 'float'>
<class 'str'>
<class 'str'>
<class 'str'>
13.2
<class 'float'>
22
<class 'int'>
5.5
<class 'float'>
5.5
5
2
11.0
<class 'float'>
1
0.200000000000000018
5
<class 'int'>
<class 'int'>
<class 'str'>
```

In [2]:

```
str1 = "Hello"
print(str1[0])
str2 = " World"
print(str1 + str2)
```

```
H
Hello World
```

In [3]:

```
tup = (1, 22, 3, str1[4])
print(tup)
print(tup[1])
```

```
(1, 22, 3, 'o')
22
```

In [4]:

```
list1 = [1, 2, 3, 4, 5, 6]
print(list1[-2])
print(list1[2:])
print(list1[:2])
print(list1[-2:])
print(list1[2:-2])
print(list1[2:-2:2])
print(4 in list1)
print(7 in list1)

list2 = ['a', 'b', 'c', 'd', 'e']
print(list2)
```

```
5
[3, 4, 5, 6]
[1, 2]
[5, 6]
[3, 4]
[3]
True
False
['a', 'b', 'c', 'd', 'e']
```

In [5]:

```
list3 = list1 + list2
print(list3)
```

```

list3.append('f')
print(list3)
list3.insert(6,7)
print(list3)
list3.extend([1,2,3])
print(list3)
list3.append([1,2,3])
print(list3)
print(list3.index('b'))
print(list3.index(1))
print(list3.count(1))
list3.remove(1)
print(list3)
list3.reverse()
print(list3)

```

```

[1, 2, 3, 4, 5, 6, 'a', 'b', 'c', 'd', 'e']
[1, 2, 3, 4, 5, 6, 'a', 'b', 'c', 'd', 'e', 'f']
[1, 2, 3, 4, 5, 6, 7, 'a', 'b', 'c', 'd', 'e', 'f']
[1, 2, 3, 4, 5, 6, 7, 'a', 'b', 'c', 'd', 'e', 'f', 1, 2, 3]
[1, 2, 3, 4, 5, 6, 7, 'a', 'b', 'c', 'd', 'e', 'f', 1, 2, 3, [1, 2, 3]]
8
0
2
[2, 3, 4, 5, 6, 7, 'a', 'b', 'c', 'd', 'e', 'f', 1, 2, 3, [1, 2, 3]]
[[1, 2, 3], 3, 2, 1, 'f', 'e', 'd', 'c', 'b', 'a', 7, 6, 5, 4, 3, 2]

```

In [6]:

```

list4 = [3, 5, 2, 77, 22, 0]
list4.sort()
print(list4)
list4.sort(reverse=True)
print(list4)

```

```

[0, 2, 3, 5, 22, 77]
[77, 22, 5, 3, 2, 0]

```

In [7]:

```

ma = {"user": "Adri", "pswd": 123, "id": 5432432}
print(ma)
del ma["pswd"]
print(ma)
print(ma.keys())
print(ma.values())
print(ma.items())
ma.clear()
print(ma)

```

```

{'user': 'Adri', 'pswd': 123, 'id': 5432432}
{'user': 'Adri', 'id': 5432432}
dict_keys(['user', 'id'])
dict_values(['Adri', 5432432])
dict_items([('user', 'Adri'), ('id', 5432432)])
{}

```

In [8]:

```

z = 0
if z == 0:
    print(z)
else:
    print("z no es 1")

z = 1
if z == 0:
    print(z)

```

```
else:  
    print("z no es 1")
```

```
0  
z no es 1
```

In [9]:

```
i = 0  
max = 100  
li = []  
while i < max:  
    assert(i < 100)  
    li.append(i)  
    i = i + 1  
print(li)
```

```
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24,  
25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 4  
7, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69,  
70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 9  
2, 93, 94, 95, 96, 97, 98, 99]
```