dia1

May 21, 2024

```
[ ]:
```

1 DOC STRINGS

Los Docstrings proporcionan una manera conveniente de asociar documentación con funciones, clases, o módulos.

```python
[1]: def my_function(a,b):
         '''Esta función es sobre la suma de dos números'''
         return a+b
     my_function(10,5)
```

```
[1]: 15
```

my_function.___doc___

Esta función trata de sumar dos números

2 TIPOS DE DATOS

```python
[ ]: #Numericos
     int_= 10
     float_= 2.4
     complex_=3+8j

     #Secuenciales
     list_=[1,2,3,4,5]
     tuple_=(1,2,3,4,5)

     #Mappeo
     dict_={'a':1,'b':2}

     # set
     set_={1,2,3,4}

     #bool
     bool_=True
```

```python
# string
string_="Hello"
```

3 DECLARACIÓN CONDICIONAL Y DE BUCLE

```python
# if .. else
if(True):
    print("hi")
else:
    print("hello")
# short hand   print("A") if a > b else print("B")
```

    hi

```python
# if ... elif ... else
flag=1
if(flag==0):
    print("if")
elif(flag==1):
    print("elif")
else:
    print("else")
```

    elif

```python
#Nested if
flag =1
if(flag>0):
    if(flag==1):
        print("inside if")
    else:
        print("inside else")
else:
    pass
```

    inside if

```python
# looping
# for and while
i = 1
while i < 5:
  print(i)
  i += 1
else:
  print("i is no longer less than 5")
```

    1

```
2
3
4
i is no longer less than 5
```

[3]:
```python
# break
i = 1
while i < 5:
    print(i)
    i += 1
    if(i==3):
        break

else:
  print("i is no longer less than 5")
```

```
1
2
```

[4]:
```python
# continue
# break
i = 1
while i < 5:
    print(i)
    i += 1
    if(i==3):
        continue

else:
  print("i is no longer less than 5")
```

```
1
2
3
4
i is no longer less than 5
```

[5]:
```python
# for loop
for x in range(5):
  print(x, end=" ")
```

```
0 1 2 3 4
```