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0\_procesos.py

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```
from time import sleep
from random import random

"""
Documentaci3n multiprocessing
https://docs.python.org/3.6/library/multiprocessing.html
"""

from multiprocessing import Process

def f():
    for i in range(5):
        print ("hola", i)
        sleep(random())

if __name__ == "__main__":
    p = Process(target=f)
    q = Process(target=f)
    p.start()
    q.start()
    print ("fin")
```

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1\_procesos.py

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```
import time
import random

from multiprocessing import Process

def f(value):
    for i in range(3):
        print (f"hola soy {value} vuelta {i}")
        time.sleep(random.random()/3)
def g():
    print ("adios")

if __name__ == "__main__":
    N = 10
    lp = []
    for i in range(N):
        lp.append(Process(target=f, args=(f"ana {i}",)))
    for p in lp:
        p.start()

    q = Process(target=g)
    q.start()
    print ("fin")
```

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**2\_procesos.py**

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```
import time
import random

from multiprocessing import Process
from multiprocessing import current_process

def f():
    for i in range(5):
        print (f"hola soy {current_process().name}, " + \
              f"{current_process().pid}, {current_process().is_alive()}, vuelta {i}")
        time.sleep(random.random()/3)

def g():
    print ("adios")

if __name__ == "__main__":
    N = 3
    lp = []
    for i in range(N):
        lp.append(Process(target=f, name=f"ana_{i}"))
    for p in lp:
        p.start()

    q = Process(target=g)
    q.start()
    print ("fin")
```

```
from multiprocessing import Process
from multiprocessing import current_process
from multiprocessing import Value
import time

def f(c):
    for i in range(100):
        temp = c.value + 1
        print (f"hola soy {current_process().pid}, vuelta: {i}, contador: {c.value}")
        time.sleep(0.1)
        c.value = temp

if __name__ == "__main__":
    N = 8
    lp = []
    c = Value('i', 0)
    for i in range(N):
        lp.append(Process(target=f, args=(c,)))

    print ("Valor inicial del contador", c.value)
    for p in lp:
        p.start()
```

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4\_procesos.py

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```
from multiprocessing import Process
from multiprocessing import current_process
from multiprocessing import Value

def f(c):
    for i in range(100):
        c.value = c.value + 1
        print (f"hola soy {current_process().pid}, vuelta: {i}, contador: {c.value}")

def g():
    print ("adios")

if __name__ == "__main__":
    N = 8
    lp = []
    c = Value('i', 0)
    for i in range(N):
        lp.append(Process(target=f, args=(c,)))
    print (f"Valor inicial del contador {c.value}")
    for p in lp:
        p.start()

    for p in lp:
        p.join()

    q = Process(target=g)
    q.start()
    q.join()
    print (f"Valor final del contador {c.value}")
    print ("fin")
```