

=====

Παραδείγματα φροντιστηρίου 30/10/25

=====

```
alist=[[1,2,3],[4,5,6],[7,8,9]]
for i in alist:
    for j in i:
        print(j,end=" ")
```

1 2 3 4 5 6 7 8 9

=====

```
for i in alist:
    print("\n")
    for j in i:
        print(j,end=" ")
```

1 2 3

4 5 6

7 8 9

=====

```
for iterables
```

=====

```
for i in range(4):
    print(i,end=" ")
```

0 1 2 3

```
for i in [0,1,2,3]:
    print(i,end=" ")
```

0 1 2 3

```
for i in "hello":
    print(i,end=" ")
```

h e l l o

```
for i in (0,1,2,3):
    print(i,end=" ")
```

0 1 2 3

=====

```
f1=open("afile.txt","a")
f1.write("line_1\nline_2\nline_3\n")
21
f1.close()
f1=open("afile.txt","r")
for line in f1:
```

```
print(line)
```

```
line_1
```

```
line_2
```

```
line_3
```

```
f1.close()
```

```
=====
Functions
=====
```

```
def add(a,b):
    return a+b
```

```
add(add(add(add(add(1,2),3),4),5),6)
21
```

```
def padd(a,b):
    print(a+b)
```

```
padd(1,2)
3
```

```
print("add(1,2) = ",add(1,2))
add(1,2) = 3
print("padd(1,2) = ",padd(1,2))
3
padd(1,2) = None
```

```
=====
def msum(*args):
    s=0
    for i in args:
        s=s+i
    return s
```

```
msum(1,2)
3
msum(1,2,3)
6
msum(1,2,3,4)
10
msum(1,2,3,4,5)
15
```

```
=====
def afun():
    """This function does nothing """
    pass
```

```
afun.__doc__
'This function does nothing '
help(afun)
Help on function afun in module __main__:
```

```
afun()
    This function does nothing
=====
def kw(**kwargs):
    for key in kwargs:
        print("key = ",key," value = ",kwargs[key])
```

```
kw(a=1,b=2,c=3,d=4)
key = a value = 1
key = b value = 2
key = c value = 3
key = d value = 4
=====
```

```
#δημιουργία χρήση βιβλιοθήκης
=====
```

```
#math_lib.py
def add(a,b):
    return a+b
```

```
def sub(a,b):
    return a-b
```

```
def mult(a,b):
    return a*b
```

```
def divi(a,b):
    return a/b
=====
```

```
#use_math_lib.py
import math_lib
```

```
print(math_lib.add(1,2))
print(math_lib.sub(1,2))
print(math_lib.mult(1,2))
print(math_lib.divi(1,2))
=====
```

```
packages
=====
```

```
project_1                <- Directory
    main_file.py  <- file into project_1 directory
package_1                <- Directory
    __init__.py   -> pass (κενό)                                <- file into package_1
directory
    math_lib.py   -> add, sub, mul                                <- file into package_1
directory
    db_lib.py     -> insertDB, updateDB, deleteDB  <- file into package_1 directory
```

```
#main_file.py
import package_1.math_lib
import package_1.db_lib

print("add(1,2) = ",package_1.math_lib.add(1,2))
print("sub(1,2) = ",package_1.math_lib.sub(1,2))
print("mul(1,2) = ",package_1.math_lib.mul(1,2))

package_1.db_lib.inputDB()
package_1.db_lib.updateDB()
package_1.db_lib.deleteDB()

#math_lib.py
def add(a,b):
    return a+b

def sub(a,b):
    return a-b

def mul(a,b):
    return a*b

#db_lib.py
def inputDB():
    print("Input Data into Database.")

def updateDB():
    print("Update Data into Database.")

def deleteDB():
    print("Delete Data from Database.")
=====
```