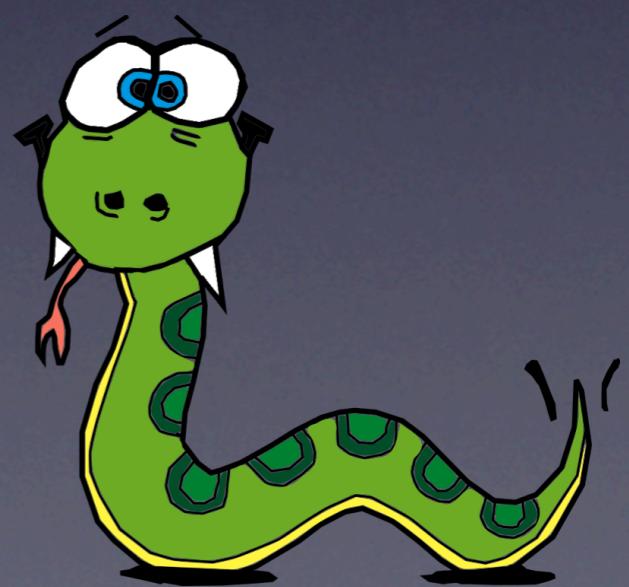


Python Game Programming

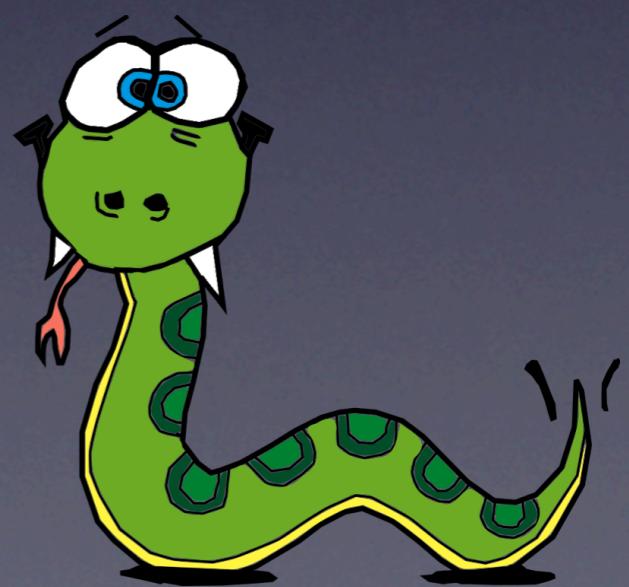
Part III:
Συναρτήσεις - Βελτιστοποίηση

```
import math  
x = math.sqrt(2)  
print x
```



Βιβλιοθήκη

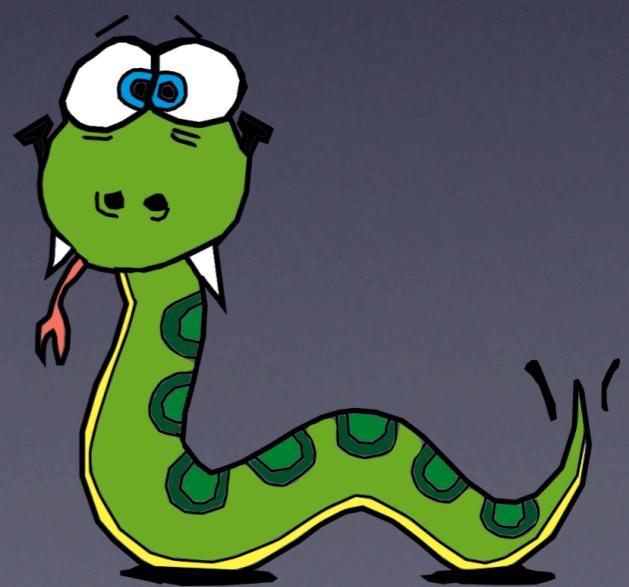
```
import math  
x = math.sqrt(2)  
print x
```

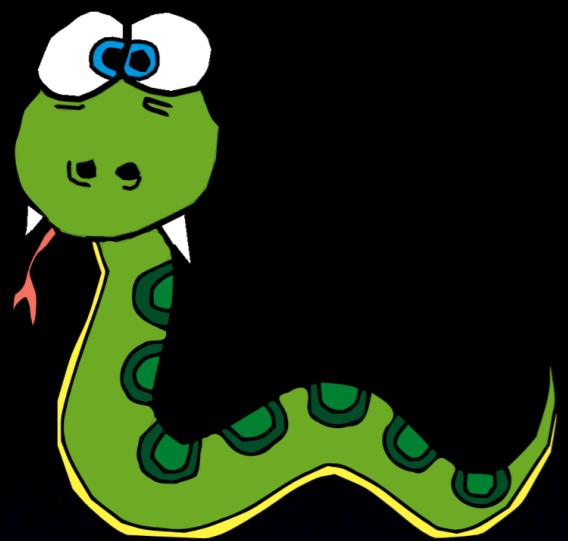


Βιβλιοθήκη

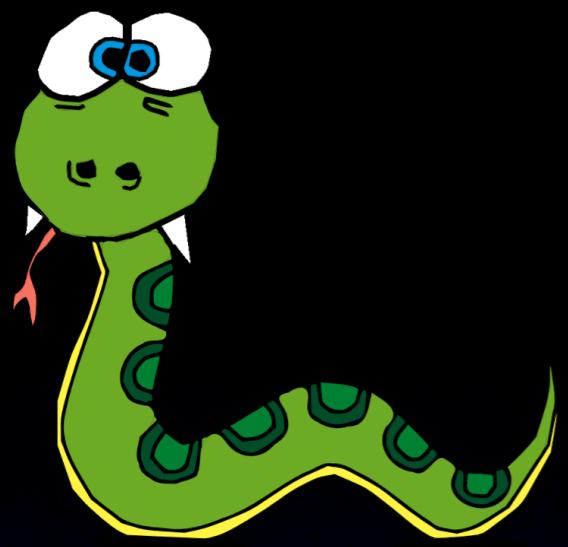
```
import math  
x = math.sqrt(2)  
print x
```

```
from math import sqrt  
x = sqrt(2)  
print x
```



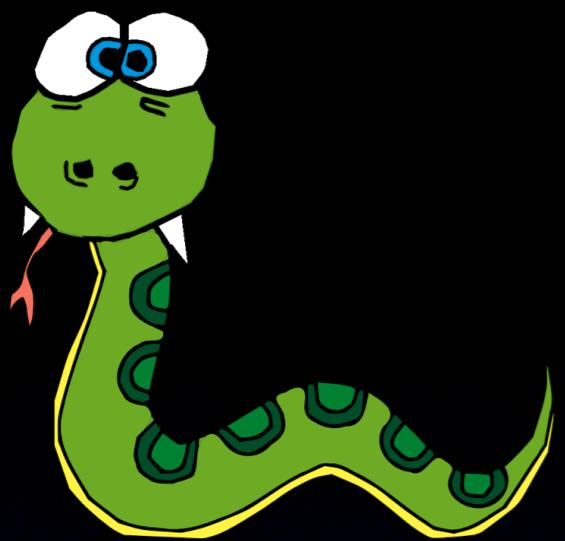


```
import math  
for i in range(1,11):  
    x = math.sqrt(i)  
    print i,x
```



[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

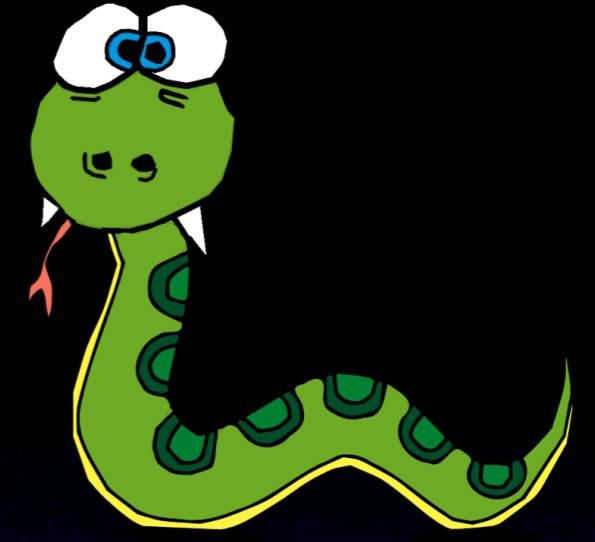
```
import math  
for i in range(1,11):  
    x = math.sqrt(i)  
    print i,x
```



[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

```
import math  
for i in range(1,11):  
    x = math.sqrt(i)  
    print i,x
```

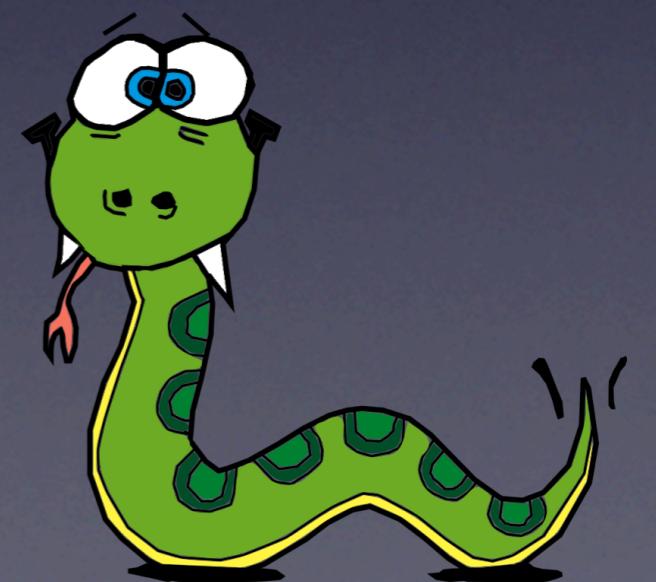
```
print i, math.sqrt(i)
```



Δημιουργία Συναρτήσεων

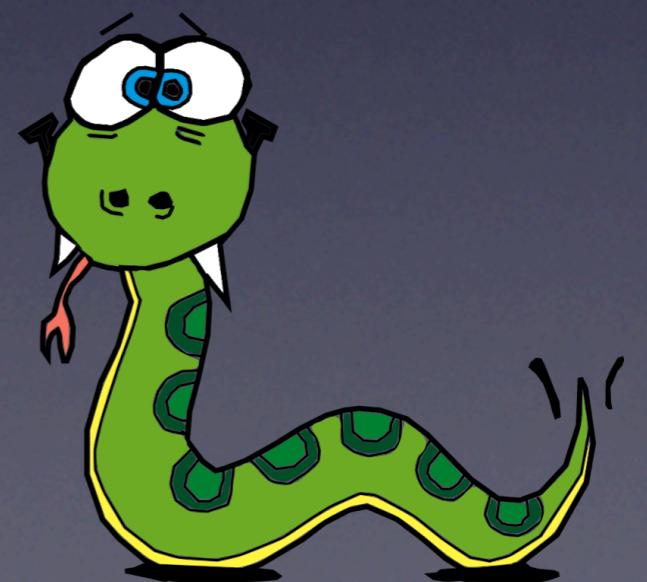
δικών μας, εννοείται...

```
def cube(thenumber):  
    result = thenumber**3  
    return result
```



Ορισμός

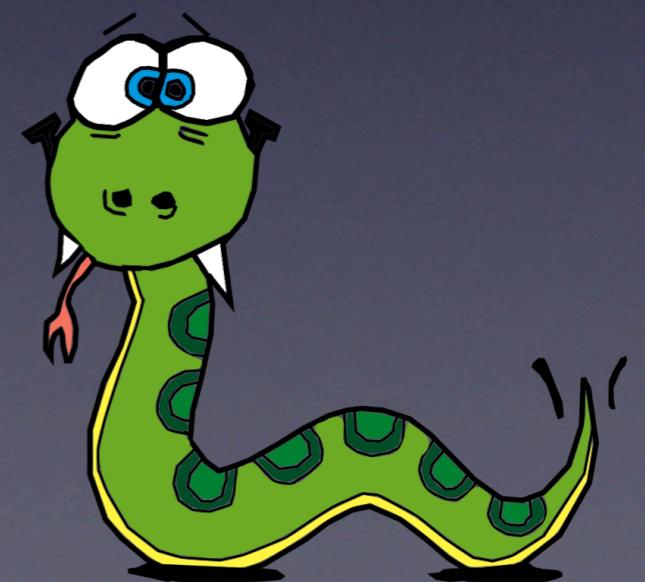
```
def cube(thenumber):  
    result = thenumber**3  
    return result
```



Ορισμός

Όνομα
συνάρτησης

```
def cube(thenumber):  
    result = thenumber**3  
    return result
```

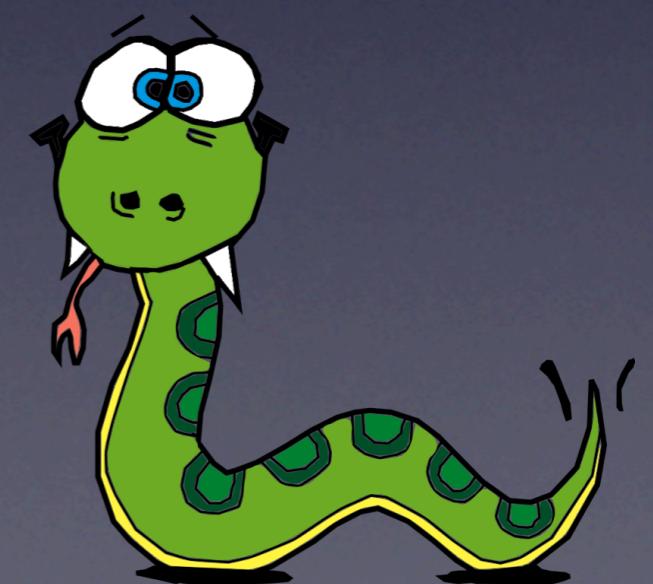


Ορισμός

Όνομα
συνάρτησης

Λίστα ορισμάτων

```
def cube(thenumber):  
    result = thenumber**3  
    return result
```



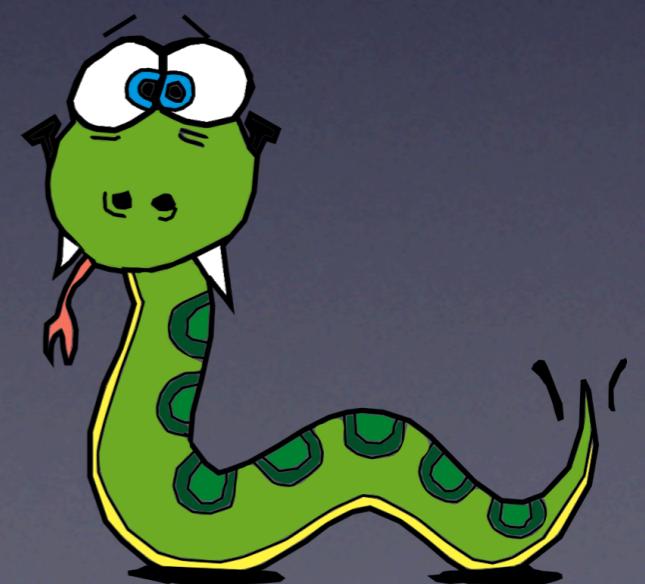
Ορισμός

Όνομα
συνάρτησης

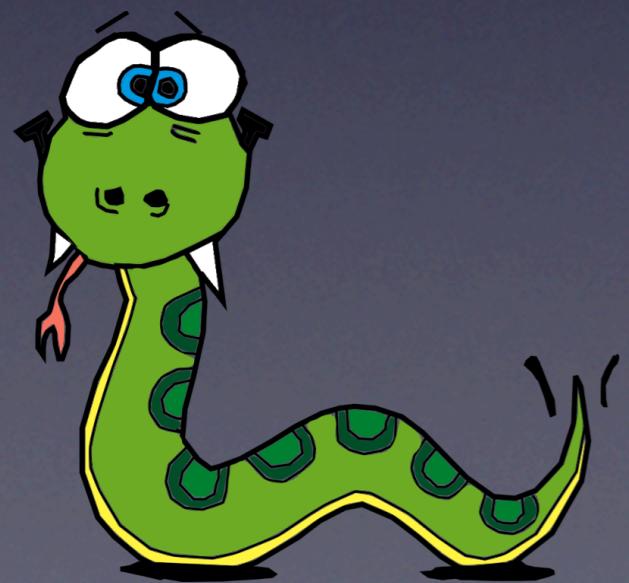
Λίστα ορισμάτων

```
def cube(thenumber):  
    result = thenumber**3  
    return result
```

Επιστροφή
αποτελέσματος

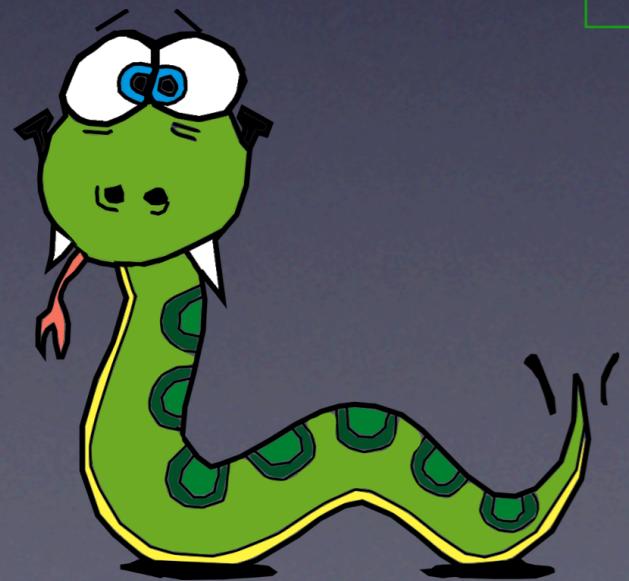


```
def cube(thenumber):  
    result = thenumber**3  
    return result
```

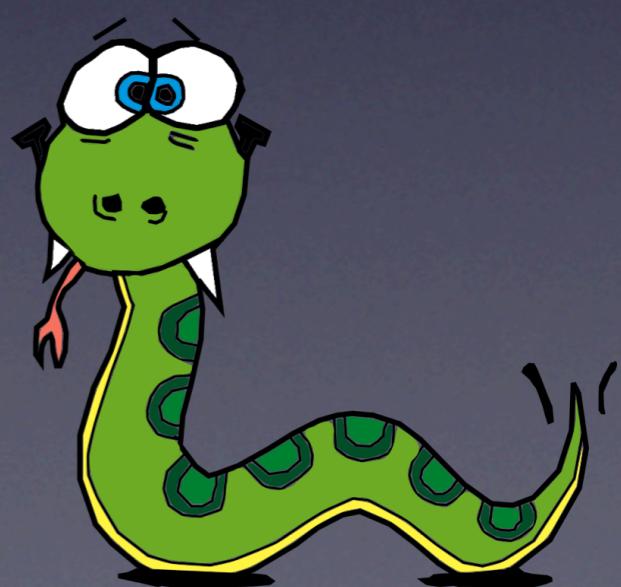


```
def cube(thenumber):  
    result = thenumber**3  
    return result
```

```
x = cube(5)  
print x
```

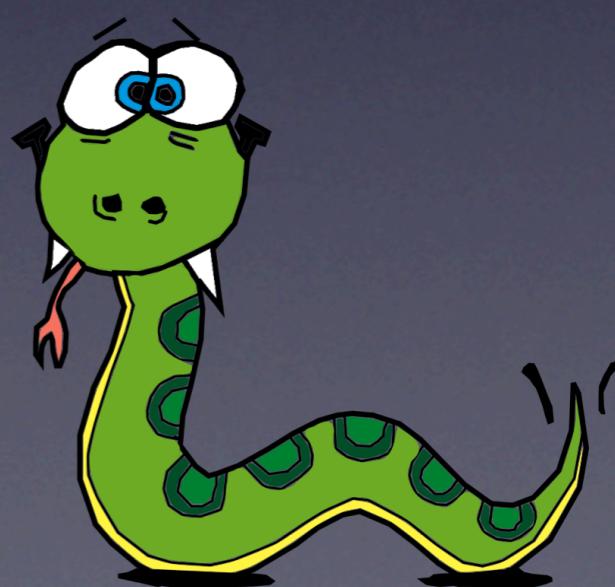


```
def centerText(thetext):  
    linelength = 80  
    textlength = len(thetext)  
    spaces = (linelength - textlength) / 2  
    print spaces*" "+thetext  
    return
```



```
def centerText(thetext):  
    linelength = 80  
    textlength = len(thetext)  
    spaces = (linelength - textlength) / 2  
    print spaces*" "+thetext  
return
```

```
centerText("Hello there!")
```



Coding Time!

