

Python training - lab 6

Functions - local variables

```
def func():  
    x = 7    # x is a local variable  
    print('Value of x:', x)    # 7
```

```
x = 5  
func()  
print('Value of x:', x)    # 5
```

Functions - global variables

```
def func():  
    global x  
    x = 7    # x is a global variable  
    print('Value of x:', x)    # 7
```

```
x = 5  
func()  
print('Value of x:', x)    # 7
```

Functions - global variables

```
def func():  
    print('Value of x:', x)    # 5
```

```
x = 5  
func()  
print('Value of x:', x)    # 5
```

Functions - global variables

```
def func():  
    li = [14]    # we made li local variable  
    li.append(24)  
    print('Value of li:', li)  
    di['Q'] = 111
```

```
li = [4, 5]  
di = {'ab': 123, 'd': 78}  
func()  
print('Value of li:', li)  
print('Value of di:', di)
```

Text formatting - old style

```
x, y = 'portocala', 'ala'  
m, n = 6, 7.8
```

```
print('%s bala %s' % (x, y))  
print('%s # %i # %f' % (x, m, n))  
print('%s # %f # %i' % (x, m, n))  
print('%(p1)s # %(p2)i' % {'p2': m, 'p1': x})  
print('%s display percent %%' % x)
```

Text formatting - new style

```
x, y = 'portocala', 'ala'  
m, n = 6, 7.8
```

```
print('{} bala {}'.format(y, x))  
print('{1} bala {0}'.format(y, x))  
print('{p1} bala {p2}'.format(p2=y, p1=x))  
print('{p1} {1} {p2}'.format(m, n, p2=y, p1=x))  
print('Display {} accolades {{ }}'.format(y))
```

Text formatting - string interpolation (f-strings)

```
x, y, z = 'ala', 'bala', 'portocala'  
m, n = 5, 6.456789
```

```
print(f'{x} {y} {z} !')  
print(f'{x*2} {y:17} # {z:>15} !')  
print(f'{x:_>8} {y:^17} # {z:+<5} !')  
print(f'{n:7.4f} !')  
print(f'Display accolades {{ }}')
```

```
// accolades inside accolades
```

```
p, c = 5, '_'  
print(f'{x:{{c}}>{{p}}}')  
# ala_>5
```


PEP 8

- PEP – Python Enhancement Proposal
- <https://peps.python.org/pep-0008/>
- Style guide for Python

//code not PEP compliant

```
def Func(a = 9):  
    if (a>8):  
        print('not OK')
```

//code PEP compliant

```
def func(a=9):  
    if a > 8:  
        print('OK')
```