

Functions

Stored and reusable pieces of code

Python functions

We have already used functions:

```
raw_input()
```

```
type()
```

```
str()
```

```
int()
```

```
float()
```

Our own functions

`def function_name():`

statement

statement

```
def printAB():
```

```
    print 'A'
```

```
    print 'B'
```

function_name()

```
printAB()
```

What will the following Python program print out?

```
def printAB():  
    print 'A'  
    print 'B'
```

```
print 'C'  
printAB()  
print 'D'  
printAB()
```

Parameters and arguments

```
def function_name(parameter):  
    statement  
    statement  
  
function_name(argument)
```

```
def printAB(c):  
    print 'A'  
    print 'B'  
    print c  
  
printAB('D')
```

Multiple parameters and arguments

```
def function_name(parameter1,parameter2,parameter3):  
    statement  
    statement
```

```
function_name(argument1,argument2,argument3)
```

Function call inside another function

```
def function_a():  
    print 'A'  
def function_b():  
    function_a()  
    print 'B'  
function_b()  
function_a()
```

How many times will A be printed out?

„Fruitful“ functions

```
def function_name():  
    statement  
    return statement
```

```
def returnAB():  
    return 'AB'
```

```
function_name()
```

```
print returnAB()
```

return vs print

```
def sumReturn(x, y):  
    return x + y  
sum_xy = sumReturn(1, 3) / 2
```

```
def sumPrint(x, y):  
    print x + y  
print sumPrint(1, 3) / 2
```

Reserwed words

def

return

Homework (number of days in month,
price difference)

Questions?

Test 3

Questions?

Exercises

<https://courses.cs.ut.ee/2017/nkp/fall/Main/During3>