FUNCTIONS
Notes on homework

• You can solve the homework together but please don't submit exact copies of another person's programs.
• Make sure you have enough your own contribution in the programs.
• Simply changing variable names and input-output texts is not enough.
Notes on practice session work

• You don't need to solve all practice session problems – quality is more important than quantity. Please solve one problem in full, rather than several problems partially.

• At the end of the session please submit both the worksheet and the programs.

• If you solve practice session problems together with somebody, then please write the name of the person you worked with on your submission.
Defining functions

def function_name():
    statement
    statement
    statement

function_name()

def letters():
    print('A')
    print('B')

letters()
Functions with parameters

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

function_name(argument)
```

```python
def letters(c):
    print('A')
    print('B')
    print(c)

letters('D')
```
Functions with multiple parameters

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

function_name(argument1, argument2, argument3)
Executing the function

def letters():
    print('A')
    print('B')

print('C')
letters()
print('D')
letters()
Function call inside another function

def alto():
    print('A')

def basso():
    alto()
    alto()
    print('B')

basso()
alto()  

How many times will A be printed out?
Returning values

def function_name():
    statement
    statement
    return statement

function_name()
Printing is not the same as returning

```python
def sumPrint(x, y):
    print(x + y)

def sumReturn(x, y):
    return x + y

S = sumReturn(1,3)/2 # Error
print(sumPrint(1,3)/2) # Error
sumPrint(1,3) # Correct
```
Indentation

- Commands inside function definition should be indented.
- Function call should not be indented.

```python
def area(r):
    S = math.pi * r ** 2
    return S
```

```python
radius = float(input("Enter radius: "))
print("Area is", area(radius))
```
Reserved words

def
return
Review of homework

• H4.1. Bakery cash register
• H4.2. Einstein's Theory of Special Relativity