Exercise 1

due 02.11.2017

This exercise covers Chapters 0 and 1 of the tutorial. Please submit your solution until 02.11., 23:59, via e-mail to `programming-l1-ws1718@ims.uni-stuttgart.de` as a **plain text** and/or Python file (which should end on `.txt` or `.py`). Please also submit in groups of **at least 3 students**, and clearly indicate the **names and immatriculation** numbers of all involved students. Submissions that do not fulfill these requirements are not accepted.

Questions

1. What is what in the following snippet? In particular, please point out all

   - variables
   - values (their type)
   - assignments
   - operators
   - function calls

```
1  x = 5+1
2  z = "z"
3  x = print(x, x)
4  z = fun(z, x)
5  x * 7
```

2. Are the following lines valid expressions? If not, why not?

```
1  5+(7*3)**(1+2)
2  -7
3  'hallo
4  a-7
5  3+(4+(5+(6+(7+8))))
6  y = 234**7
```

3. What do the following expressions evaluate to?

```
1  25/2
2  25%2
3  25//2
4  (25//2)*2+(25%2)
5  'word'*(240**17//((120+2*60)**16)%238)
```

4. Write a python program that

- Asks a user for two numbers and stores them in two variables
- Prints the sum, followed by the product of the two numbers

If run, the program should look approximately like this:

```
1  Enter number 1:
2  2
3  Enter number 2:
4  4
5  Sum: 6
6  Product: 8
```

Please write your program in a single Python file.