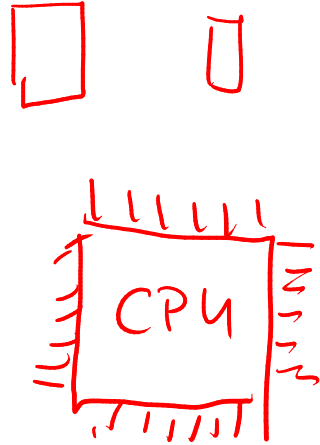


python for beginners 1

kacper.topolnicki@uj.edu.pl



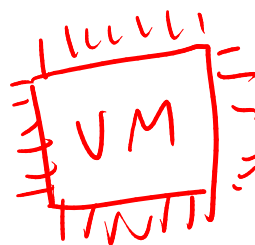
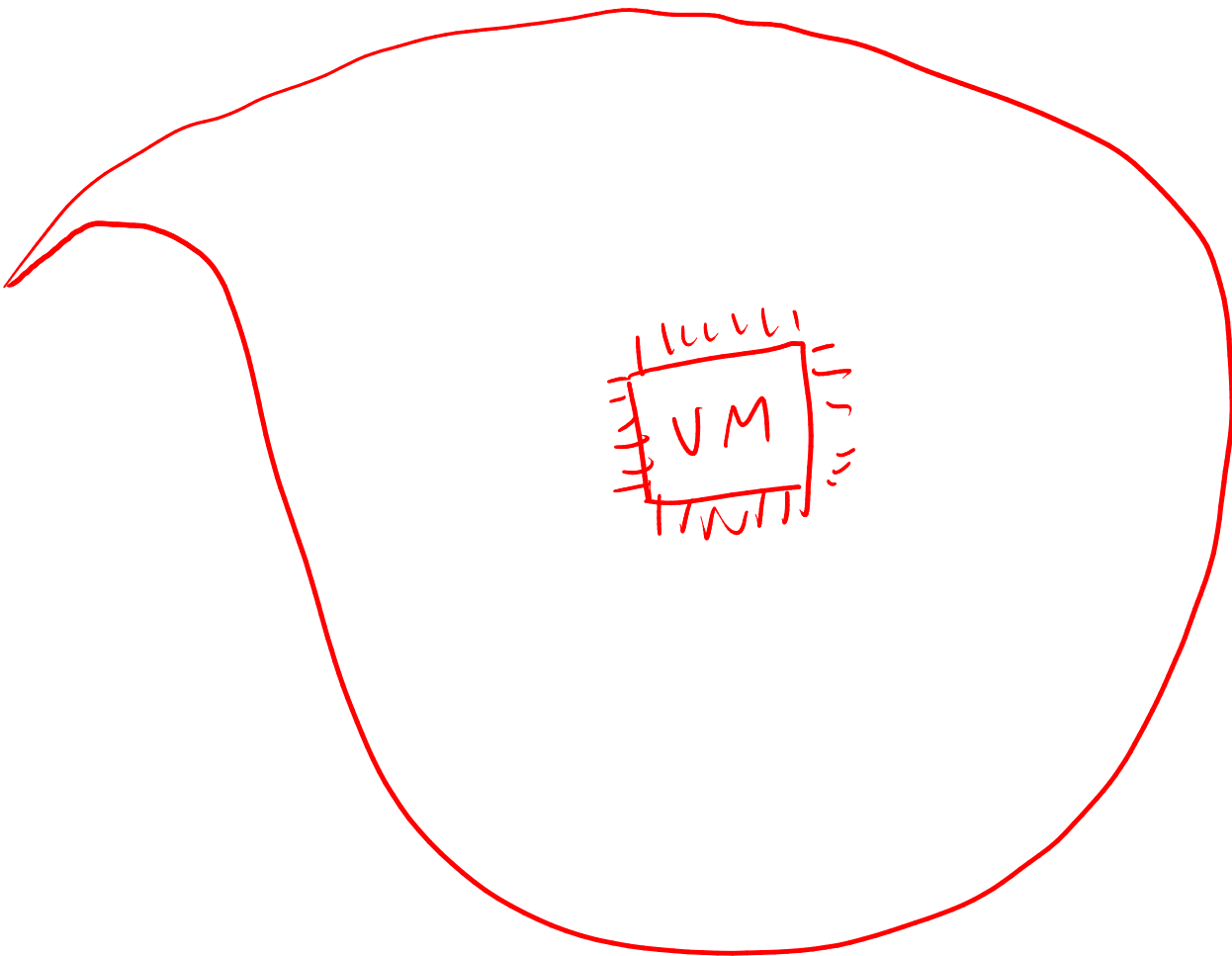
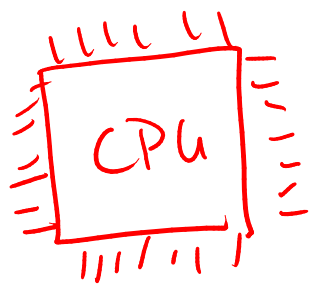
01011...
10110...
01001...
...


ADD
PUSH
POP
...

assembler

int a;
a = 1;
int b;
b = a + 1;
...

compiler



java 
(jvm)

java byte code

java
Kotlin
Scala
...

python 

python bytecode

python

factorial

pseudocode:

<calculate $n!$ >

$x \leftarrow 1$

loop $i = 1 \dots n$

$x \leftarrow x * i$

return x



python

...

$x = 1$ $1 \dots n$

for i in $\text{range}(1, n+1)$:

$x = x * i$

print(x)

functions in python:

def name of function (a, b, c, ...):

↳ ...

↳ ...

↳ ...

↳ return ...