

Homework 1

Due date: Thursday January 18 2017, 11:59pm

EXAMPLE: Write the whole homework in one file, the examples below could look like the file snippet below

1. Example 1: Write a command that produces this list [7,8,9,10]
Answer: `range(7,11)`
2. Example 2: Write a command that generates a list of squares:
Answer: `[xi*xi for xi in range(10)]` or `[xi**2 for xi in [1,4,3,2]]` etc.

```
#!/usr/bin/env python
# (c) yourname
# 1. Write a command that produces this list [7,8,9,10]
print range(7,11)
# 2. Write a command that generates a list of squares
print [xi*xi for xi in range(10)]
print [xi**2 for xi in [1,4,3,2]]
```

ASSIGNMENT:

1. Write a command that produces this output List: 2 4 6 8 10 12 16
2. Write a command that produces this output List: 201 191 181 171 161
3. Combine two strings and print each string
4. Sum up 10 random number (look at our calculation of Pi for that) and present the result
5. Present a result for this calculation:

$$\sum_{k=1}^{K=\infty} \frac{1}{k^2}$$

show results where you sum over $K = 10, K = 1000, K = 10000$

Send the file `yourname_home1.py` to `beerli@fsu.edu`, use "ISC4304 home1 yourname" as subject line. I will see whether they Canvas dropbox works over this coming weekend and thus the instruction how to send me the file may change.