

HOMEWORK 6

Submission deadline: Monday 28th of October, 20:00.

Any question, write to xavier.parent@uni.lu

QUESTION 1

Design a program that computes the arithmetic and harmonic mean of a random list of 50 positive integers out of the 100th first ones. A script that creates a random list of integers is given below (you can copy/paste the code).

```
import random
N=100 #Range of the random integers
Numb=50 #Number of random integers

#Construction of the randomlist
randomlist=[]
for i in range(0,Numb):
    randomlist.append(random.randrange(1,N))

print(randomlist)
```

QUESTION 2

If you call `sentence.split()` then you will get a list of words in your sentence. Using the `split` method write a 1-line long program that prints the Lorem Ipsum text below without words of length less than or equal to 8.

“Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum”.

QUESTION 3

Give an example of a class diagram where the MRO old and new school give a different outcome.