

EPAM Python for QA Training

Homework 3

Level 1

1. Write a program to generate list with all numbers divisible by 2 and 3 between 1 and 10000 using two approaches:

- list comprehension
- filter function

2. Print a number of sentences in a file `alice_in_wonderland.txt` (a sentence shall end in either a dot `.` or a tripple-dot `...`)

3. Write a script to convert strings to date objects. Input list:

- 11 Jan 2016
- 4 April 2011
- 11.03.2014
- 03/24/91

Script should have defined supported dates formats. Conversion should be in the loop.

Level 2

4. We need to decrease issues count and priority in Python for QA - bugs list - Sheet1.csv. Write a program to decrease each issue priority to one level (critical -> high, high -> medium, medium -> low), issues that have low level now should be removed. Save result into new CSV file.

5. Write a script to automatically generate directories and files (empty 6 files with names `task*.py` where `*` is task number between 1 and 6) structure for python-for-qa course. Result should look the following way:

- **python-for-qa**
 - **lesson1**
 - task1.py
 - ...
 - task6.py
 - **lesson2**
 - ...

Level 3

6. Please figure out information from nginx access logs file - `log.txt`:

- all distinct requests' status codes
- resources users tried to access without permissions (HTTP status 403)
- created resources (HTTP status 201)

- requests count in time range 15:11:00 - 15:26:00
- successful requests rate (2xx / all count)