Санкт-Петербургский национально исследовательский университет информационных технологий, механики и оптики Факультет программной инженерии и компьютерной техники



Исследование языков разметки документов

Лабораторная работа №3 Вариант №1

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Группа: Р3112

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2020

Задание

Исходный формат: YAML

Результирующий формат: JSON

День недели: Понедельник

Выполнение

Исходный файл на языке YAML:

```
Monday:
 Timetable:
  Pair №1:
   Time: "08:20-09:50"
   Week: "odd week"
   Aud: "431B AUD."
   Building: "Kronverksky pr., 49, letter A"
   Subject: "PROGRAMMING (LAB)"
   Teacher: "Pertsev Timofey Sergeevich"
   Class format: "Full-time - distance"
  Pair №2:
   Time: "10:00-11:30"
   Week: "odd week"
   Aud: "431B AUD."
   Building: "Kronverksky pr., 49, letter A"
   Subject: "PROGRAMMING (LAB)"
   Teacher: "Pertsev Timofev Sergeevich"
   Class format: "Full-time - distance"
  Pair Nº1:
   Time: "11:40-13:10"
   Week: "even week"
   Aud: "101 AUD."
   Building: "Kronverksky pr., 49, letter A"
   Subject: "FOUNDATIONS OF PROFESSIONAL ACTIVITY (LAB)"
   Teacher: "Nikolaev Vladimir Vyacheslavovich"
   Class format: "Full-time - distance"
  Pair №3:
```

Time: "11:40-13:10" Week: "odd week" Aud: "305 AUD."

Building: "Kronverksky pr., 49, letter A"

Subject: "INFORMATICS (LAB)"

Teacher: "Malysheva Tatyana Alekseevna"

Class format: "Full-time - distance"

Pair №2:

Time: "13:30-15:00" Week: "even week" Aud: "101 AUD."

Building: "Kronverksky pr., 49, letter A"

Subject: "FOUNDATIONS OF PROFESSIONAL ACTIVITY (LAB)"

Teacher: "Gavrilov Anton Valerievich" Class format: "Full-time - distance"

Pair №4:

Time: "13:30-15:00" Week: "odd week" Aud: "305 AUD."

Building: "Kronverksky pr., 49, letter A"

Subject: "INFORMATICS (LAB)"

Teacher: "Malysheva Tatyana Alekseevna"

Class format: "Full-time - distance"

Pair №3:

Time: "15:20-16:50" Week: "even week" Aud: "369A AUD."

Building: "Kronverksky pr., 49, letter A" Subject: "DISCRETE MATHEMATICS (PRAK)" Teacher: "Polyakov Vladimir Ivanovich"

Class format: "Full-time - distance"

Pair №4:

Time: "17:00-18:30" Week: "even week" Aud: "369A AUD."

Building: "Kronverksky pr., 49, letter A" Subject: "DISCRETE MATHEMATICS (PRAK)" Teacher: "Polyakov Vladimir Ivanovich"

Class format: "Full-time - distance"

Программа:

```
inputfile = open('input.yml', 'r')
a = list()
b = list()
d = list()
b.append('{')
    b.append(o1)
c.append('{')
        c.append((len(b[i + 1]) - len(b[i + 1].lstrip())) * ' ' ' + '},')
        c.append(b[i + 1])
    d.append(o1)
d.append('
d.append(' }')
d.append('}')
```

Результат:

```
"Monday": {
 "Timetable": {
  "Pair №1": {
   "Time": "08:20-09:50",
   "Week": "odd week",
   "Aud": "431B AUD.",
   "Building": "Kronverksky pr., 49, letter A",
   "Subject": "PROGRAMMING (LAB)",
   "Teacher": "Pertsev Timofey Sergeevich",
   "Class format": "Full-time - distance"
  },
  "Pair №2": {
   "Time": "10:00-11:30",
   "Week": "odd week",
   "Aud": "431B AUD.",
   "Building": "Kronverksky pr., 49, letter A",
   "Subject": "PROGRAMMING (LAB)",
   "Teacher": "Pertsev Timofey Sergeevich",
   "Class format": "Full-time - distance"
  },
  "Pair №1": {
   "Time": "11:40-13:10",
   "Week": "even week",
   "Aud": "101 AUD.",
   "Building": "Kronverksky pr., 49, letter A",
   "Subject": "FOUNDATIONS OF PROFESSIONAL ACTIVITY (LAB)",
   "Teacher": "Nikolaev Vladimir Vyacheslavovich",
   "Class format": "Full-time - distance"
  },
  "Pair №3": {
   "Time": "11:40-13:10",
   "Week": "odd week",
   "Aud": "305 AUD.",
   "Building": "Kronverksky pr., 49, letter A",
   "Subject": "INFORMATICS (LAB)",
   "Teacher": "Malysheva Tatyana Alekseevna",
   "Class format": "Full-time - distance"
  "Pair №2": {
   "Time": "13:30-15:00",
   "Week": "even week",
   "Aud": "101 AUD.",
   "Building": "Kronverksky pr., 49, letter A",
   "Subject": "FOUNDATIONS OF PROFESSIONAL ACTIVITY (LAB)",
   "Teacher": "Gavrilov Anton Valerievich",
   "Class format": "Full-time - distance"
```

```
"Pair №4": {
 "Time": "13:30-15:00",
 "Week": "odd week",
 "Aud": "305 AUD.",
 "Building": "Kronverksky pr., 49, letter A",
 "Subject": "INFORMATICS (LAB)",
 "Teacher": "Malysheva Tatyana Alekseevna",
 "Class format": "Full-time - distance"
"Pair №3": {
"Time": "15:20-16:50",
 "Week": "even week",
 "Aud": "369A AUD.",
 "Building": "Kronverksky pr., 49, letter A",
 "Subject": "DISCRETE MATHEMATICS (PRAK)",
 "Teacher": "Polyakov Vladimir Ivanovich",
 "Class format": "Full-time - distance"
"Pair №4": {
 "Time": "17:00-18:30",
 "Week": "even week",
 "Aud": "369A AUD.",
 "Building": "Kronverksky pr., 49, letter A",
 "Subject": "DISCRETE MATHEMATICS (PRAK)",
 "Teacher": "Polyakov Vladimir Ivanovich",
 "Class format": "Full-time - distance"
```

Вывод:

В процессе выполнения лабораторной работы я изучил особенности языков разметки YAML и JSON, приобрел навык изменения строк в Python.