

Отчет  
Лабораторная работа 8  
ПКИЯП  
Вариант 23

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## Задание:

1. Осуществите разбор данных сайта с использованием библиотеки BeautifulSoup.
2. Сформируйте датасет табличного типа с использованием Python.
3. Сохраните датасет в формате CSV.

```
import requests
from bs4 import BeautifulSoup
import pandas as pd

url =
"https://en.wikipedia.org/wiki/List_of_countries_and_dependencies_by_population"

# 1) скачиваем страницу
resp = requests.get(url, headers={"User-Agent": "Mozilla/5.0"})
resp.raise_for_status()

# 2) парсим HTML
soup = BeautifulSoup(resp.text, "html.parser")

# 3) находим таблицу (на Википедии часто class="wikitable")
table = soup.find("table", class_="wikitable")

rows = table.find_all("tr")

data = []
for r in rows[1:]: # пропускаем заголовок
    cols = r.find_all(["td", "th"])
    cols = [c.get_text(strip=True) for c in cols]
    if len(cols) >= 4:
        # берём простые колонки: Rank, Country, Population, Date
        rank = cols[0]
        country = cols[1]
        population = cols[2]
        date = cols[3]
        data.append([rank, country, population, date])

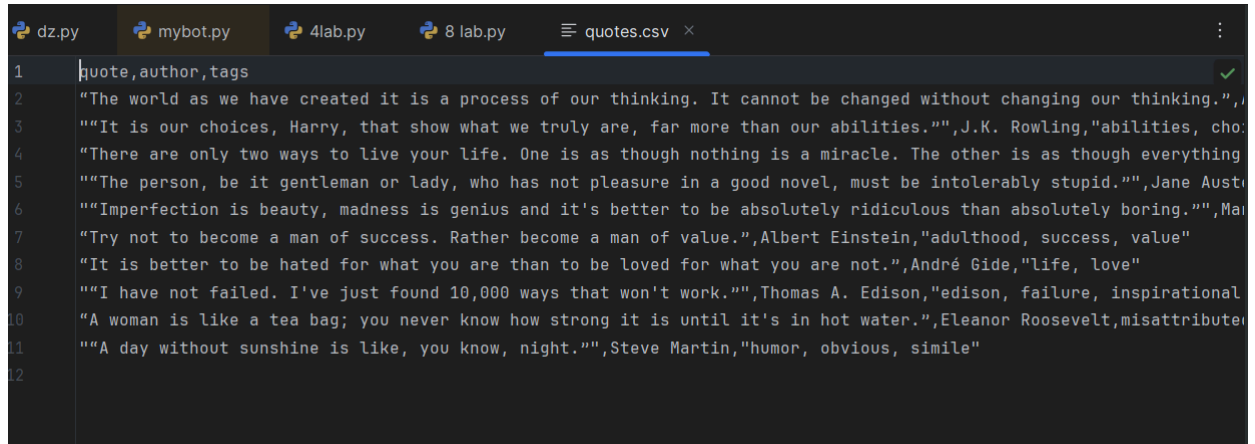
# 4) делаем табличный датасет
df = pd.DataFrame(data, columns=["rank", "country", "population",
"date"])

# 5) сохраняем в CSV
```

```
df.to_csv("dataset.csv", index=False, encoding="utf-8-sig")

print("Готово! Сохранено в dataset.csv")
print(df.head())
```

## Пример выполнения программы



The screenshot shows a JupyterLab interface with a file browser at the top containing 'dz.py', 'mybot.py', '4lab.py', '8 lab.py', and 'quotes.csv'. The 'quotes.csv' file is open, displaying the following data:

	quote	author	tags
1	"The world as we have created it is a process of our thinking. It cannot be changed without changing our thinking."	J.K. Rowling	abilities, choices
2	"It is our choices, Harry, that show what we truly are, far more than our abilities."	J.K. Rowling	abilities, choices
3	"There are only two ways to live your life. One is as though nothing is a miracle. The other is as though everything is a miracle."	Jane Austen	life, love
4	"The person, be it gentleman or lady, who has not pleasure in a good novel, must be intolerably stupid."	Jane Austen	life, love
5	"Imperfection is beauty, madness is genius and it's better to be absolutely ridiculous than absolutely boring."	Maya Angelou	humor, obvious, simile
6	"Try not to become a man of success. Rather become a man of value."	Albert Einstein	adulthood, success, value
7	"It is better to be hated for what you are than to be loved for what you are not."	André Gide	life, love
8	"I have not failed. I've just found 10,000 ways that won't work."	Thomas A. Edison	edison, failure, inspirational
9	"A woman is like a tea bag; you never know how strong it is until it's in hot water."	Eleanor Roosevelt	misattributed
10	"A day without sunshine is like, you know, night."	Steve Martin	humor, obvious, simile
11			
12			