

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])

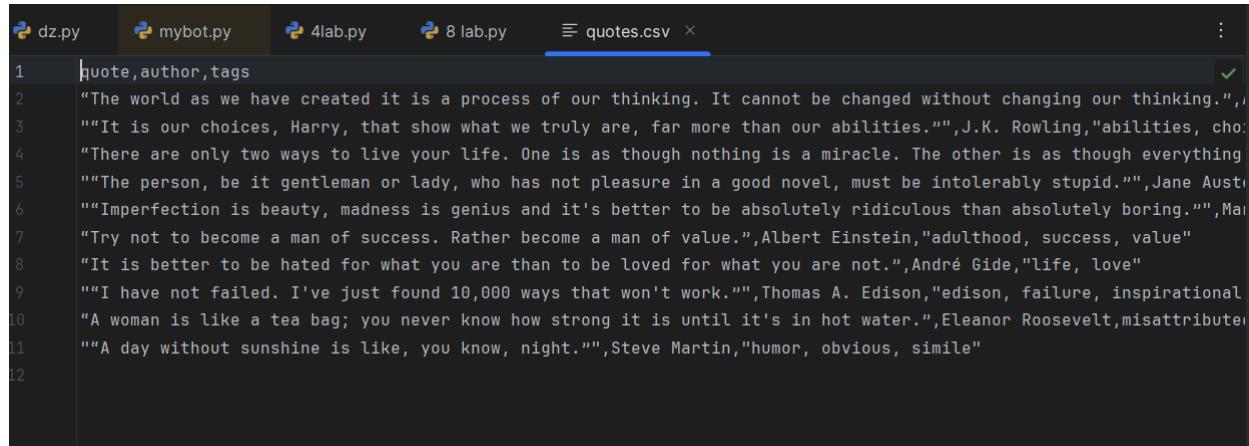
# 4) делаем табличный датасет
df = pd.DataFrame(data, columns=["rank", "country", "population",
"date"])

# 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 code editor interface with several tabs at the top: dz.py, mybot.py, 4lab.py, 8 lab.py, quotes.csv (which is the active tab), and a blank tab represented by three dots. The quotes.csv tab contains the following 12 lines of data:

Line	Content
1	quote,author,tags
2	"The world as we have created it is a process of our thinking. It cannot be changed without changing our thinking.",,
3	""It is our choices, Harry, that show what we truly are, far more than our abilities."",J.K. Rowling,"abilities, choices"
4	"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."",Albert Einstein,"miracle, life"
5	""The person, be it gentleman or lady, who has not pleasure in a good novel, must be intolerably stupid."",Jane Austen,"novel, pleasure"
6	""Imperfection is beauty, madness is genius and it's better to be absolutely ridiculous than absolutely boring."",Marcel Proust,"beauty, genius"
7	"Try not to become a man of success. Rather become a man of value.",Albert Einstein,"adulthood, success, value"
8	"It is better to be hated for what you are than to be loved for what you are not.",André Gide,"life, love"
9	""I have not failed. I've just found 10,000 ways that won't work."",Thomas A. Edison,"edison, failure, inspirational"
10	"A woman is like a tea bag; you never know how strong it is until it's in hot water.",Eleanor Roosevelt,misattributed
11	""A day without sunshine is like, you know, night."",Steve Martin,"humor, obvious, simile"
12	