





Integrated Programme for the Development of Wrocław University of Science and Technology

Lab09. Internet Access

Script Languages (INZ002025)

Wojciech Thomas

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1 Learning goals

After this lab you should be able to:

- 1. Download content from Internet web sites
- 2. Analyse downloaded web pages content
- 3. Send and receive emails

2 Exercises

Artefacts to be uploaded to ePortal: - file: app9.py

In this lab you will create Python application to read the dataset in CSV format, aggregate data read and finally prepare a report as an Excel file.

- 1. Develop a function to send an e-mail to your teacher using the university mail server.
 - Use the following settings for your university account:
 - Username: university student's email address,
 - Password: your e-mail password,
 - SMTP Server: smtp.gmail.com.
 - Read login and password from external configuration file. Do not store your credentials in the code! Do not upload your password to the ePortal.
 - Put a current date and time in the subject of the message (with some nice words ;)).
 - Check, if the mail application correctly displays sender and recipient of the message (eg. you do not get undisclosed recipients).
- Provide a content of the message using an parameter --mail
- Send the e-mail only, if your app is started in the following manner:

```
python app9.py --mail "My message to the teacher"
```

Warning: Before testing, in your Google Account turn on the option Security / Less secure app access. After successful sending e-mail to your teacher turn it off.

2. Develop a function to display some facts about cats.







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- Study documentation of the Web API
- Print on the screen facts about cats downloaded from the web page: https://cat-fact.herokuapp.com/
- Print a particular number of facts, when your app is started in the following manner:

```
python app9.py --cat-facts 5
```

- 3. Develop a function to create a report with a list of researchers of W-8 department with last names starting with a given letter.
 - Read and parse the content of the web page with researchers of our department with the last name starting with a given letter: e.g. https://wiz.pwr.edu.pl/pracownicy?letter=D.
 - Use the BautifulSoup module to parse the web page and extract the list of researchers.
 - Print on the screen:
 - a header (e.g. "The list of researchers D"),
 - a list of researchers' names along with their emails, eg.: John Doe john.b.doe@pwr.edu.pl
 - What will you do, if there is no teacher with a last name starting with a given letter?
 - Print the list of teachers, only if your app is started in the following manner: python app9.py --teachers D