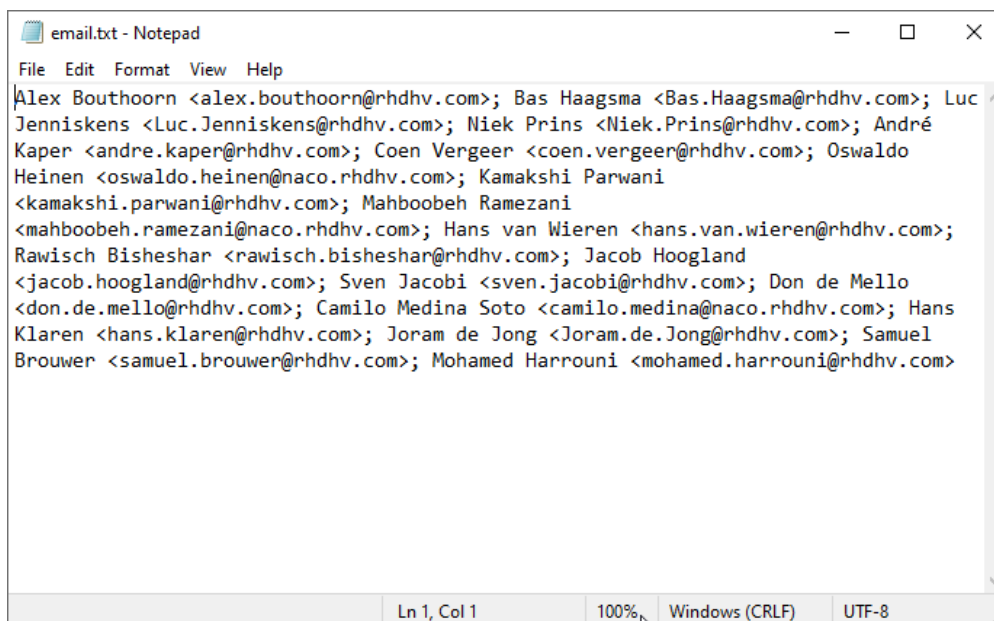# Automate your work with Python

```
In [ ]:   # an introduction by: Maarten de Rijk
          # DWOW Day: 2022-09-06
```

The Email Task

I want to sent you all a personal email. I've received a text file of with all your names and email addresses.

How can I automate this?

```
email.txt - Notepad                                                    —  □  ×
File  Edit  Format  View  Help
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                                Ln 1, Col 1         100%   Windows (CRLF)    UTF-8
```

What are the steps to achieve this task?

Try to find the smallest sub tasks the achieve this task.

Steps:

1. Locate the file
2. Open the text file
3. Read the file
4. Split the text by using the semicolon into to do list
5. Loop over the list
6. For each of the persons in the list:"split by name and emaildress by
7. Send email with text to the person
8. File close

note: I removed the output from the following cells, as they contain personal imformation

```python
# find the file location
file_location = "C:\Dev\PythonDemo\emailer\email.txt"

print(file_location)
```

```python
# Open the file
file = open(file_location)

print(file)
```

```python
# Read the contents of the file
data = file.read()

print(data)
```

```python
# Split the data into a list of entries: for each of the receivers one entry
receiver_list = data.split("; ")
print(receiver_list)
```

```python
# Decide on the message we want to sent:
message_text = "Thank you for visiting the Workshop 'Automate your work with Pythor

# Decide on the email subject
subject = "My first automated email"
```

```python
for receiver in receiver_list:
    print(receiver)
```

```python
# Let's test on the first item of the receiver list. Item 0!
first_receiver = receiver_list[0]           # This is "Maarten de Rijk <maarten.r1

split_receiver = first_receiver.split(" <")
name = split_receiver[0]
email = split_receiver[1]

email = email.replace(">", "")
print(name)
print(email)
```

```python
# Go into the loop:
for receiver in receiver_list:
    split_receiver = receiver.split(" <")
    name = split_receiver[0]
    email = split_receiver[1]
    email = email.replace(">", "")
    message = "Hello " + name + ",\n"
    message = message + message_text
    print(f"Send email to {email}, with subject {subject} and message:\n{message}")
    print("\n")
```