Vidzeme University of Applied Sciences

**Faculty of Engineering**

Introduction to Python and Data Exploration

group 08

practical work #4

Valmiera, 2023

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| Document versions | | | |
| Version | Status / Changes | Date | Author |
| 1.0 | Made the code | 07.03.2023 | Ričards Didriksons |

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| --- | --- | --- | --- |
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**GOAL.** Made a program that reads a file which consists of emails and sorting them by domain names depending on how many emails are received from that email.

# Code Structure

**NB! In the open() function correct data file name/ location needs to be written (in case the file location or name is different)**

* Opening the file



* 4 functions:

-This function splits the line where a spacebar is used and extracts the full email address from the line passed to it.

Text

Description automatically generated with low confidence

-This function splits the email where @ symbol is used and extracts the domain name of the email address.

A picture containing text

Description automatically generated

-This function iterates through each line from the text file and counts how many emails are received from each domain and saves them in a dictionary. Previously mentioned functions are used to get the domain name.

Graphical user interface

Description automatically generated with low confidence

-This function prints out each domain name and a \* symbol(s). Each symbol represents the number of emails received from the corresponding domain name

Text

Description automatically generated

# Error handling

Graphical user interface

Description automatically generated with low confidence

# List of used resources

Introduction to Python and Data Exploration - Dr.sc.ing., Kaspars Osis

# APPENDIX 1

\_pyt2023\_group08\_pw4.zip

\_pyt2023\_group08\_pw4\_rainers\_krumins.zip

\_pyt2023\_group08\_pw4\_ricards\_didriksons.zip