**LAB 1**

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# **Environment set-up: Anaconda**

Graphical user interface, application

Description automatically generated

1. Create a Jupyter notebook

Graphical user interface, text, application, email

Description automatically generated

1. Export Jupyter notebook and run it as a Python script

A computer screen capture

Description automatically generated with medium confidence

# **Github**

1. Install Github desktop and create a Github account

A screenshot of a computer

Description automatically generated with medium confidence

1. Create new repository

A screenshot of a computer

Description automatically generated

1. Cloning your repository

A screenshot of a computer

Description automatically generated

1. Add a new file to your repo

Graphical user interface, text, application

Description automatically generated

1. Push a branch to GitHub

A screenshot of a computer

Description automatically generated with medium confidence

# **Python basics**

1. Data types
2. Numbers

Graphical user interface, application

Description automatically generated

1. Variable assignment

Graphical user interface, text, application

Description automatically generated with medium confidence

1. Strings

Background pattern

Description automatically generated with medium confidence

1. Printing

Graphical user interface, text, application, email

Description automatically generated

1. Lists

Graphical user interface, application

Description automatically generated

Graphical user interface, application, email

Description automatically generated

1. Dictionaries

Background pattern

Description automatically generated

1. Booleans

Background pattern

Description automatically generated

1. Tuples

Graphical user interface, text, application, email

Description automatically generated

1. Sets

Background pattern

Description automatically generated

1. Comparison Operators

Graphical user interface, application

Description automatically generated

1. Logic Operators

Background pattern

Description automatically generated

1. If, elseif, else Statement

Graphical user interface, text, application, email

Description automatically generated

1. For loops

Graphical user interface, text, application, email, Teams

Description automatically generated

1. While loops

Graphical user interface

Description automatically generated with low confidence

1. Range

Background pattern

Description automatically generated with medium confidence

1. List Comprehension

Graphical user interface

Description automatically generated with low confidence

1. Functions

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Description automatically generated

1. Lambda expression

Background pattern

Description automatically generated with medium confidence

1. Map and filter

Graphical user interface, text, application, email

Description automatically generated

1. Methods

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

# Exercises

Q1:



Q2:

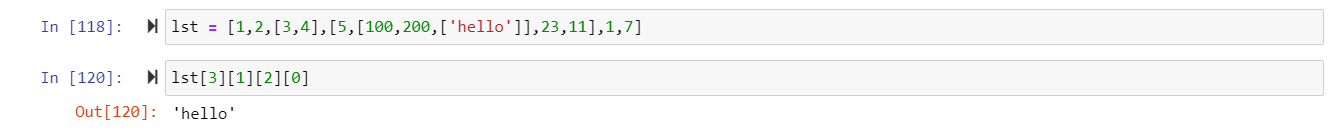


Q3:

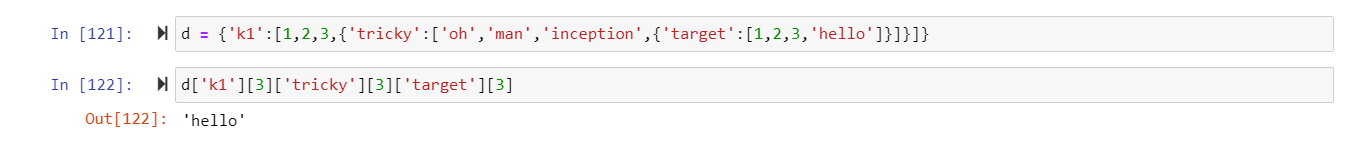
Graphical user interface, text, application

Description automatically generated

Q4:



Q5:



Q6:

Background pattern

Description automatically generated

Q7:

A picture containing background pattern

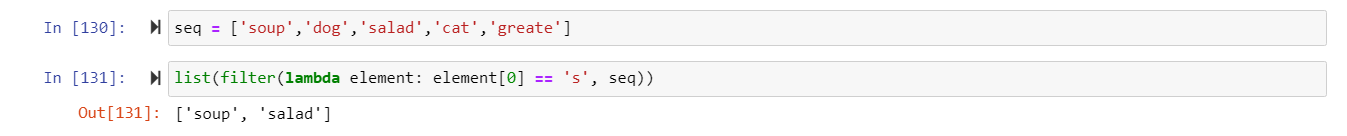
Description automatically generated

Q8:

Graphical user interface

Description automatically generated with medium confidence

Q9:



Q10:

Text

Description automatically generated

I uploaded file Python on Github: <https://github.com/challengecup/DataMining_lab1>