华夏中文学校2020-05-29 Python 暑期班 level1 （11:30-01:30pm）
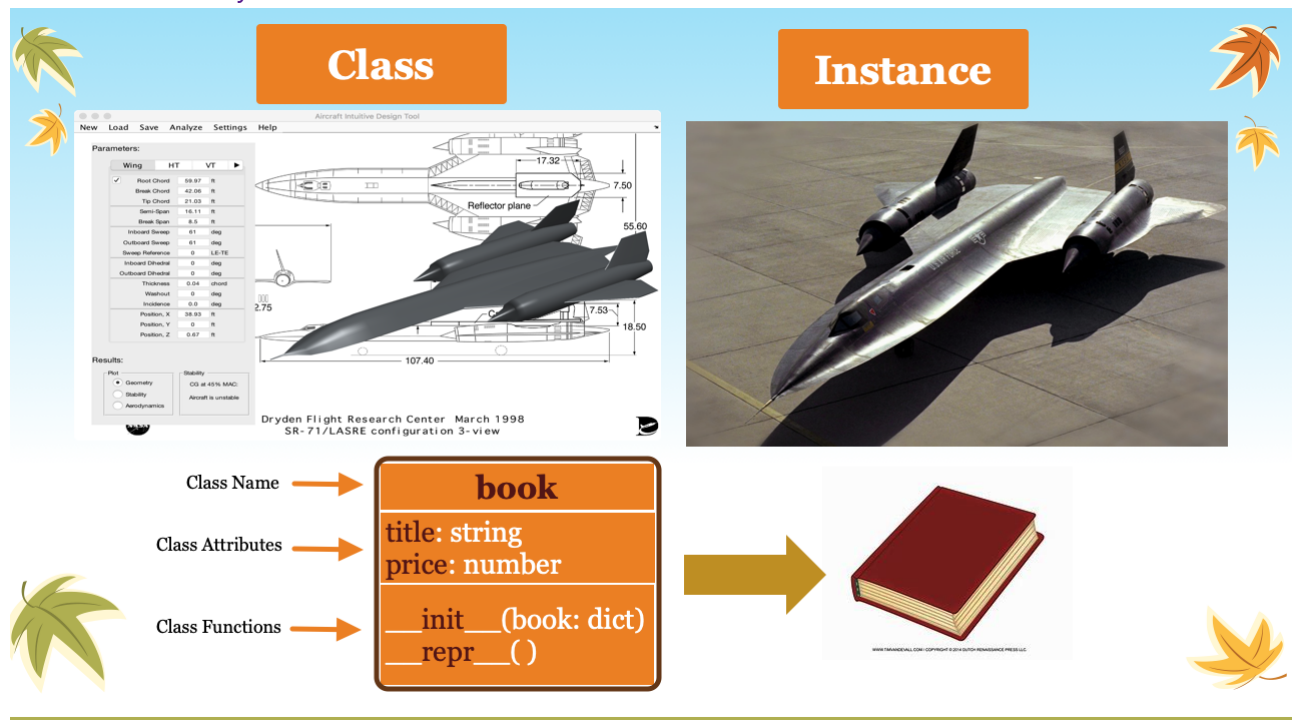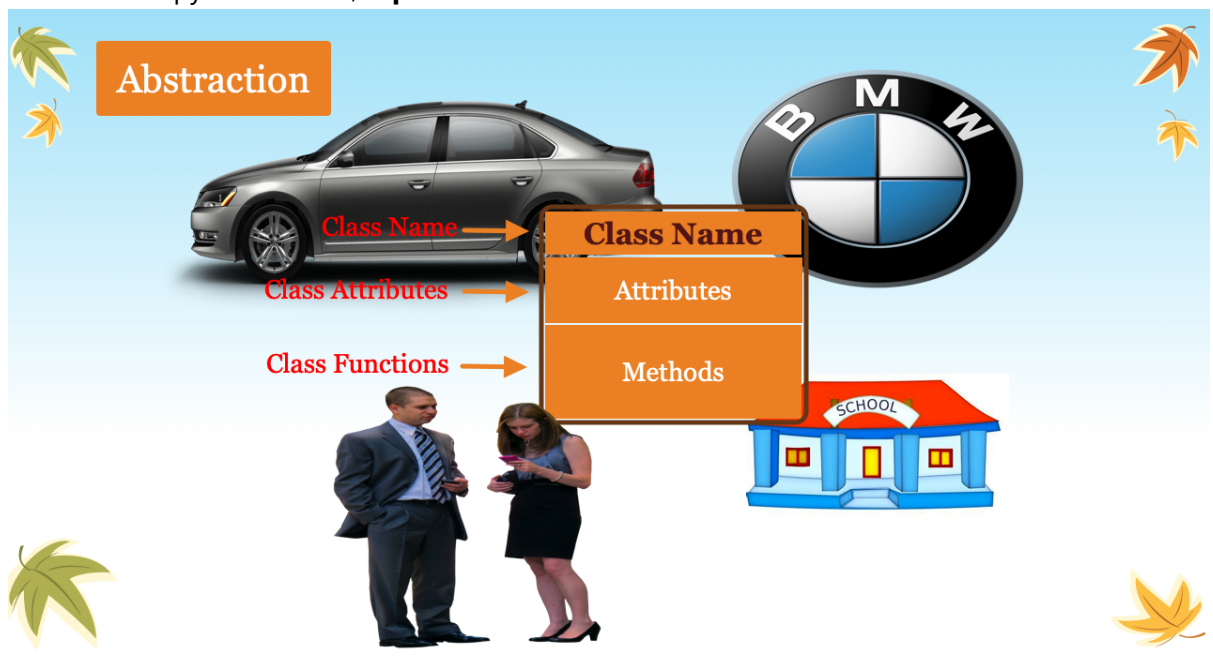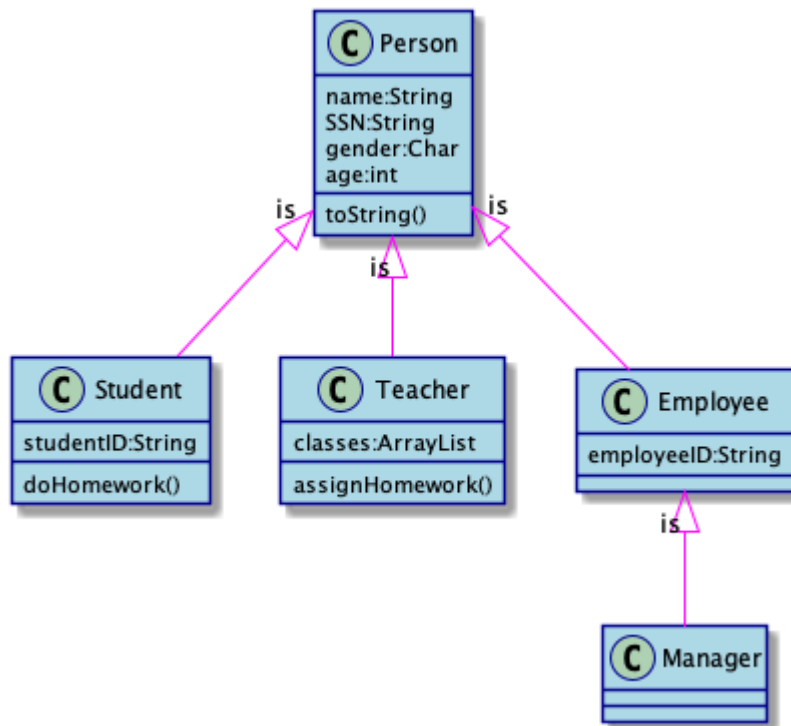
Python Tutorial

w3Schools

2020-07-30

- OOP
  YouTube Classes Python Classes

  - class book, **init**, **repr**
  - class student.py constructor, **repr** abstraction

- user.py, User, SubUser inheritence testUser
- person, teacher, student inheritence
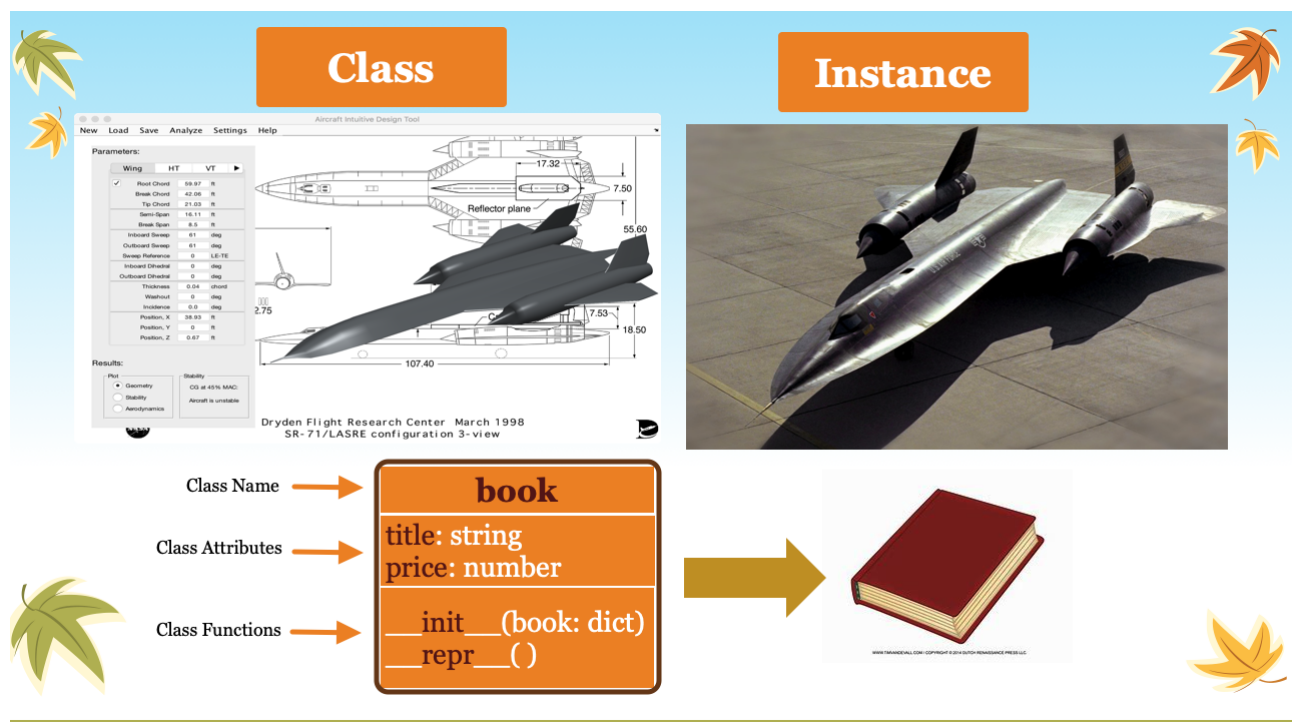

- sqlite

    - sqlite0.py > create connection

    - sqlite1.py

    - sqlite2.py

    - sqlite4.py

    - sqlite5.py

    - sqlite6.py

    - sqlite7.py > build relational data

    - sqlite8.py > show relation between project and task

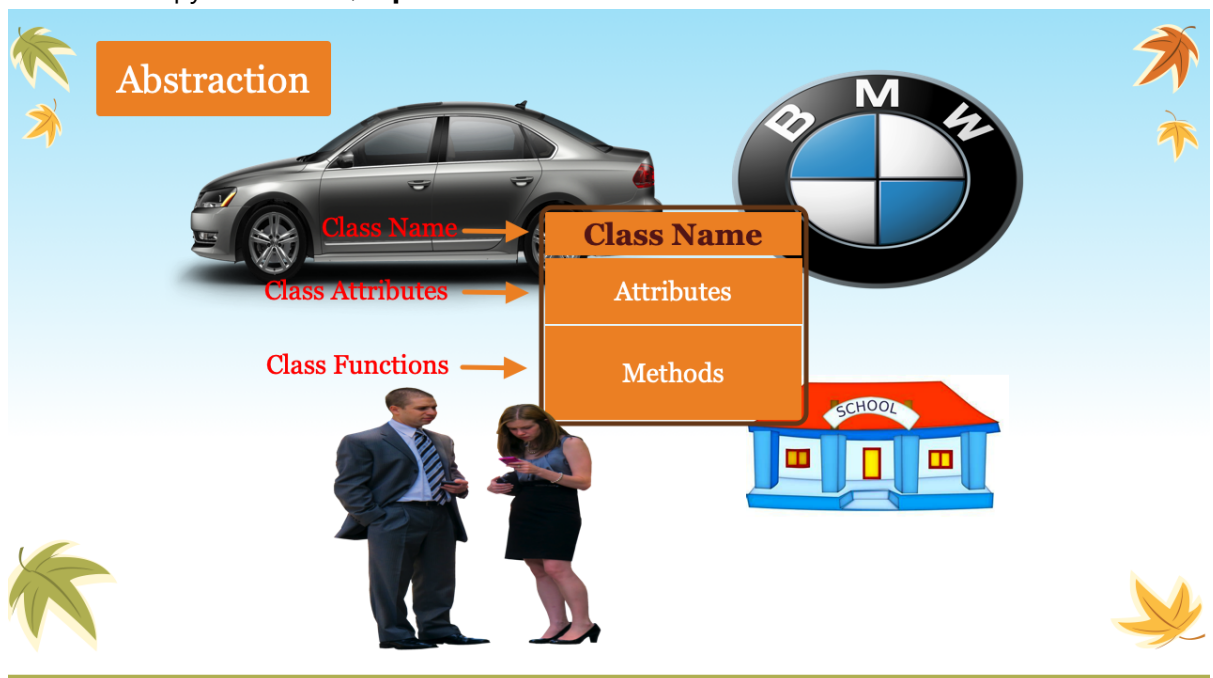
2020-07-29

- Fix issue last class

- Review

    - Markdown document
    - ball game
    - draw snowman
    - plot
    - covid_19
    - debug python code

- database access (CRUD)
- Postman to test web service
- application web server
- react JS front end GUI server

- Function

  - math1.py (circle area, rectangule area, triangle area)
  - defineFunction.py (help(sum))
  - keywordArgs.py
  - practice: define a function with keyword arguments -(createList.py parseString(str, sep=','))
  - defaultValue.py
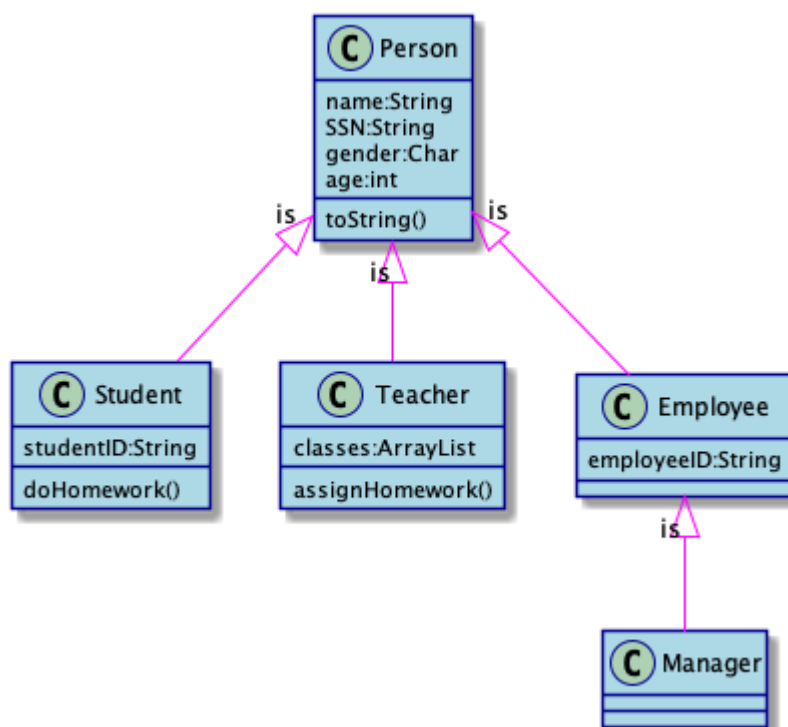 - ask.pys

- OOP

  - class book, **init**, **repr**

- class student.py constructor, **repr** abstraction

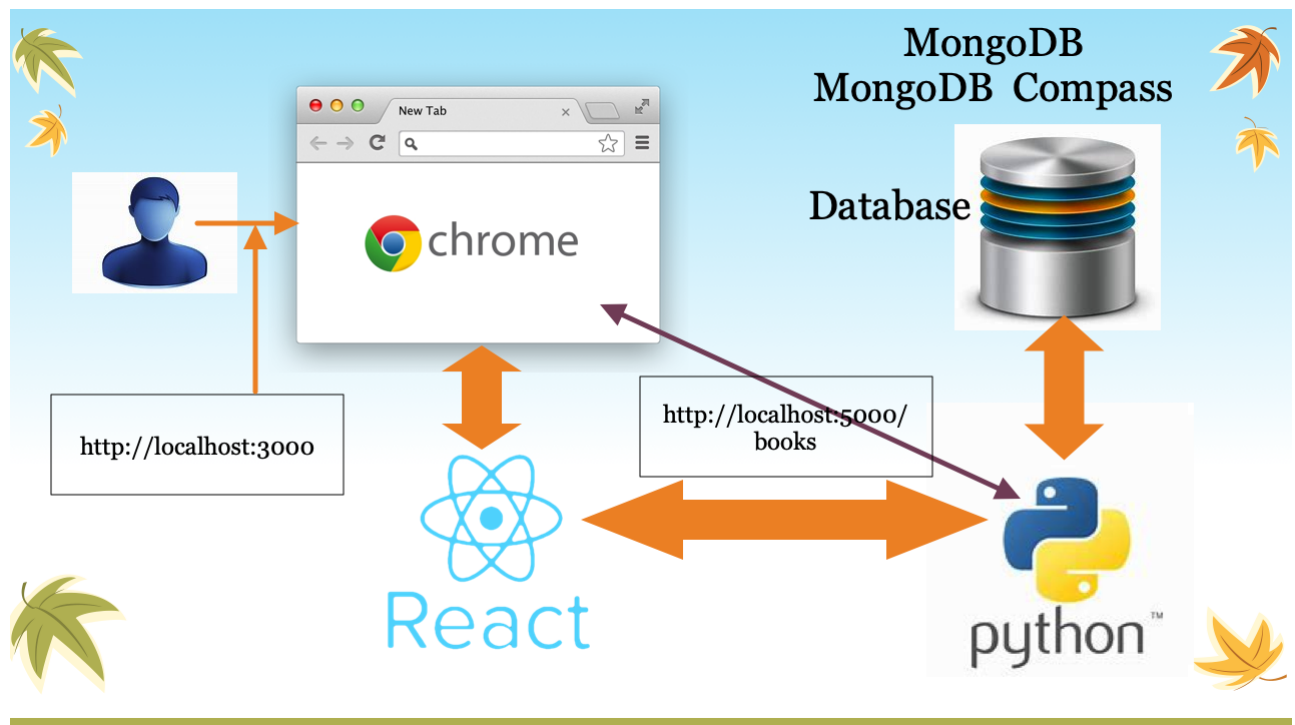- user.py, User, SubUser inheritence testUser
- person, teacher, student inheritence

2020-07-28

- Install Postman Download Website

- app server

    - app4.py (get data from mongodb)
    - postman

- install npm Download and install node

    - windows
    - macos

- Install NodeJS & npm on windows 10 nodejs.org/en/ page Google Search: install reactjs on windows 10 Step by step option 2

```
node --version
npm --version
npm install -g create-react-app
create-react-app --version
create-react-app reactproject2
```

- Install ReactJs on MacOS

sudo npx create-react-app wang-app sudo chown -R wangqianjiang wang-app cd wang-app npm start

Create a new reactjs app

2020-07-27

- Mongo DB
  - retrieve.py
  - update.py
  - delete.py
  - bookdb.py
- App server
  - app1.py > ping-pong
  - app2.py >
  - app3.py > display books
  - app4.py > postman > test service
- Install Postman Download Website

2020-07-23

- Prime
  - prime0.py > straight forward
  - prime1.py > optimized by half
  - prime2.py > define function isPrime()
  - prime3.py > calculate range(40-50)
  - prime4.py > define function rangePrime(x,y)
- Mongo DB
  - install MongoDB
  - install MongoDB Compass
  - create.py > create book db
  - retrieve.py
  - update.py

- delete.py
- bookdb.py

2020-07-22

- plot
  - plot3.py
  - Practice: plot sin(x) and cos(x) in the same chart > plot4.py
  - China-vs-USA.py
  - Online data
  - Online data
  - Practice

2020-07-21

- file access
  - file5.py
  - csvReader.py
- snowman continue
  - create a class snowman.py > drawSnowMan.py
- ploy
  - plot0.py
  - plot1.py
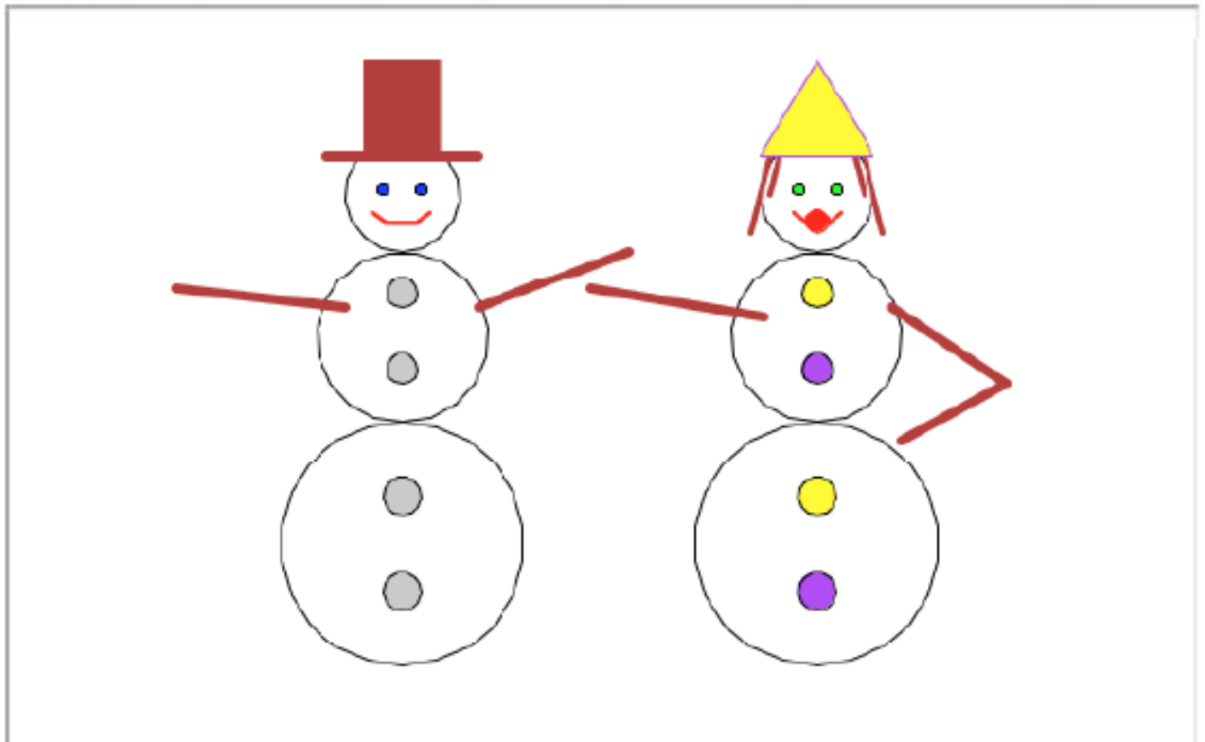 - plot2.py

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2020-07-20

- check homework snowcouple

  - demo draw_snowman.py

- file read

  - file0.py (write to file)
  - file1.py (write to existing file)
  - file2.py (with open, auto close)
  - file3.py (dump json)
  - file4.py (pandas read csv)
  - file5.py ()
  - file6.py ()

- plot

2020-07-16

- Check homework

- roll dice

    - dice.py
    - Practice: add total value of 2 dices
    - Practice: circle.py > circle_area(r)

- guess number

    - guessNumber.py

- draw snow man

    -
    - demo draw_snowman.py
    - shapes.py
    - testShapes.py
    - drawSun.py
    - homework> draw snowcouple

2020-07-15

- ball game
    - ~~ball1.py~~
    - ball2.py ~ ball10.py

2020-07-14

- turtle

    - turtle1.py ~ turtle5.py

- ball game

- ball1.py ~ ball10.py

2020-07-13

- check homework
  - yichen > 17 > Google Search: Roman Numerals >
- Loop
  - forLoop1.py
  - forBreak.py
  - forContinue.py
  - forNested1.py
  - while.py
  - Practice:

    ```
    We're on time 0
    We're on time 1
    We're on time 2
    We're on time 3
    ```

  - loop string
  - forElse.py
- If-Else
  - ifelse.py
  - if-else.py
  - Infinit loop while True: > input("Continue? (y/n)")
  - Practice:

    ```
    2, 4, 6, 8, 10
    1, 3, 5, 7, 9
    ```

2020-07-09

- Data Type

- set > setTest.py
- dict > dictTest.py

2020-07-08

- Python playground and help document

  - python >>> help(print) (positional arguments, keyword arguments)
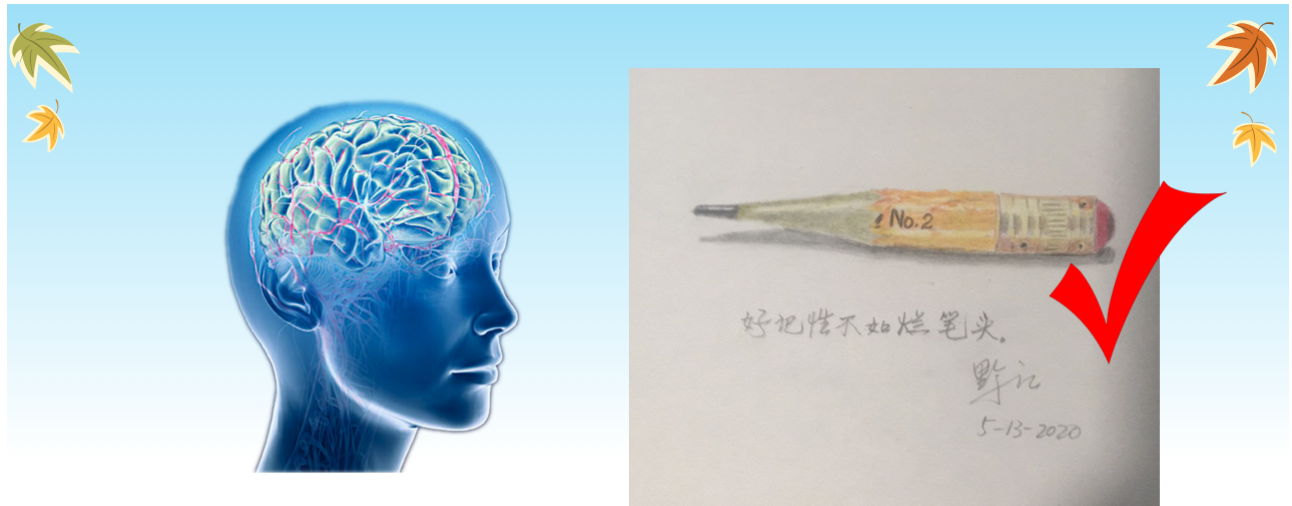 - Practice: different print statements
  - print.py
  -

- Data Type

  -
  - python terminal
  - int, float, complex > floatTest.py

- str > strTest.py
- tuple > tupleTest.py
- list > listTest.py
- set > setTest.py
- dict > dictTest.py

2020-07-07

- turn in homework to GitHub

- Markdown md文件的制作，制作课堂笔记

- add Markdown Extension
- 显示标题，子标题 #, ##
- 显示 tablet *, 1
- 显示命令行
- 显示图形
- 显示链接

- Familiar with your keyboard

space : ctrl+c Ctrl+v ctrl+/ shift+downarrow tab shift+tab Enter(Return) " `

- Hello World

  - hello.py
  - helloHim.py

2020-07-06

- installation check

```
python --version
git --version
code --version
```

- Famillar with your keyboard

```
mkdir workspace
ls
cd workspace
mkdir python
cd python
ls
```


locate ·, enter, space, tab, ：, "", '', up-arrow, left-arrow

Software Installation

- 下载 VSCode

> Google search: vs code download Search result: Download Visual Studio Code - Mac, Linux, Windows
> VSCode Download Website File: VSCode-darwin-stable.zip

- 下载 Python

> Google search: python download Search result: Download Python | Python.org Python Download
> Website

- 安装 Git

> Google search: git downloads Search result: Git - Downloads

Git Download

```
brew install git
ls -la /usr/local
sudo chown -R wangqianjiang:wheel /usr/local
brew link git
```

Getting start

```
mkdir workspace
cd workspace
mkdir python
```

use text editor: NotePad.exe

```
print("Hello, world!")
a = 4
b = 5
print(a+b)
```

save to first.py

```
python first.py
```

Email Address

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xuelian.hu@outlook.com; xinlian.chang@gmail.com; libraluo@hotmail.com; ty7701@gmail.com;
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lanachau@gmail.com; milmil_22@hotmail.com; crystalchm@yahoo.com; crystalchm@yahoo.com;

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