ESSC 4520
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L01 Exercise

Ex1

```
~/ESSC4520EXHW$ python
Python 3.8.12 (default, Sep 10 2021, 00:16:05)
[GCC 7.5.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> print("Earth System Science")
Earth System Science
>>>
```

```
~/ESSC4520EXHW$ cd Ex/L01
~/.../Ex/L01$ python L01_ex1.py
Mong Man Wai Building
~/.../Ex/L01$
```

Ex2

```
~/.../Ex/L01$ python L01_ex2\&3.py
[1999, 5, 17]
[2022, 5, 17]
```

Ex3
The relative humidity is 75.97%.
The relative humidity when air temperature rises to 32.7 ℃ is 65.15%

Latex Ex
$$\frac{\partial \rho}{\partial t} + \nabla \cdot \left(\rho \vec{V} \right) = 0$$
= \frac{\partial\rho}{\partial t}+\nabla\cdot(\rho\overrightarrow{V})=0