

```
In [4]: "Hello, world!"

Out[4]: 'Hello, world!'

In [1]: t = "Hello, world!"

In [2]: t

Out[2]: 'Hello, world!'

In [3]: print(t)
Hello, world!

In [4]: type(t)

Out[4]: str

In [5]: 6**3

Out[5]: 216

In [6]: 100/12

Out[6]: 8.333333333333334

In [7]: round(100/12)

Out[7]: 8

In [8]: from math import factorial

In [9]: factorial(10)

Out[9]: 3628800
```

it is just a text

# Big Heading

## Smaller Heading, Level 2

### Yet Smalle Heading, Level 3

- List Item 1
- List item 2
- List item 3

$$c = \sqrt{(a^2 + b^2)}$$

```
In [14]: pwd

Out[14]: '/Users/allie/myCoursework/PHY3531/git/myJupyterNotebooks'

In [18]: %%bash
pwd
mkdir sample_directory
ls

/Users/allie/myCoursework/PHY3531/git/myJupyterNotebooks
001_myfirstnotebook.ipynb
README.md
sample_directory
mkdir: sample_directory: File exists

In [21]: %lsmagic

Out[21]: Available line magics:
%alias %alias_magic %autoawait %autocall %automagic %autosave
%bookmark %cat %cd %clear %colors %conda %config %connect_i
nfo %cp %debug %dhist %dirs %doctest_mode %ed %edit %env
%gui %hist %history %killbgscripts %ldir %less %lf %lk %ll
%load %load_ext %loadpy %logoff %logon %logstart %logstate
%logstop %ls %lsmagic %lx %macro %magic %man %matplotlib %
mkdir %more %mv %notebook %page %pastebin %pdb %pdef %pdoc
%pfile %pinfo %pinfo2 %pip %popd %pprint %precision %prun
%psearch %psource %pushd %pwd %pycat %pylab %qtconsole %qui
ckref %recall %rehashx %reload_ext %rep %rerun %reset %rese
t_selective %rm %rmdir %run %save %sc %set_env %store %sx
%system %tb %time %timeit %unalias %unload_ext %who %who_ls
%whos %xdel %xmode

Available cell magics:
%%! %%HTML %%SVG %%bash %%capture %%debug %%file %%html %%
javascript %%js %%latex %%markdown %%perl %%prun %%pypy %%p
ython %%python2 %%python3 %%ruby %%script %%sh %%svg %%sx
%%system %%time %%timeit %%writefile

Automagic is ON, % prefix IS NOT needed for line magics.

In [ ]:

In [ ]:
```