lec1_step3

April 12, 2020

In [1]:
```
## Python basics for novice data scientists, supported by Wagatsuma Lab@Kyutech
#
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# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
#
# # @Time    : 2020-4-20
# # @Author  : Hiroaki Wagatsuma
# # @Site    : https://github.com/hirowgit/2A_python_basic_course
# # @IDE     : Python 3.7.7 (default, Mar 10 2020, 15:43:27) [Clang 10.0.0 (clang-1000
# # @File    : lec1_step3.py
```

In [2]:
```
# running without modules on mathematics
pi
```

```
---------------------------------------------------------------------------

NameError                                 Traceback (most recent call last)

<ipython-input-2-f84ab820532c> in <module>()
----> 1 pi


NameError: name 'pi' is not defined
```

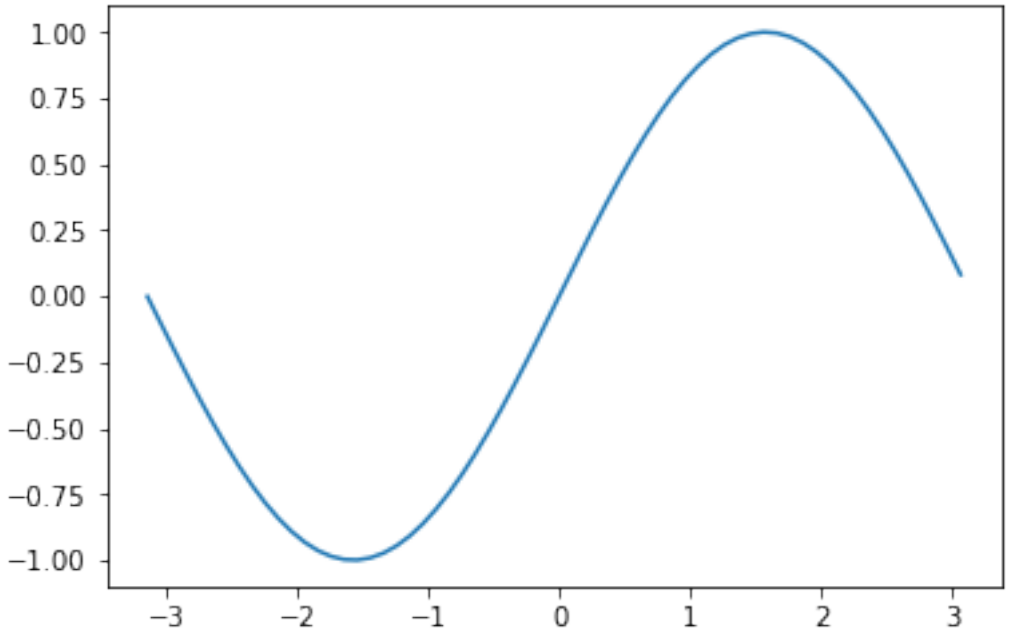
In [3]:
```
# module test: if you have an error when you run this code, you need to check the inst

import math
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

In [4]:
```
import math
pi=math.pi
print(pi)
```

```
3.141592653589793
```

```
In [5]: x = np.arange(-3.14, 3.14, 0.1)
        y = np.sin(x)
        plt.plot(x, y)
```

```
Out[5]: [<matplotlib.lines.Line2D at 0x118ea2310>]
```




```
In [6]: s = pd.Series([2, 4, 6, np.nan, 7, 9])
        print(s)
```

```
0    2.0
1    4.0
2    6.0
3    NaN
4    7.0
5    9.0
dtype: float64
```

```
In [ ]:
```