## lec1\_step3

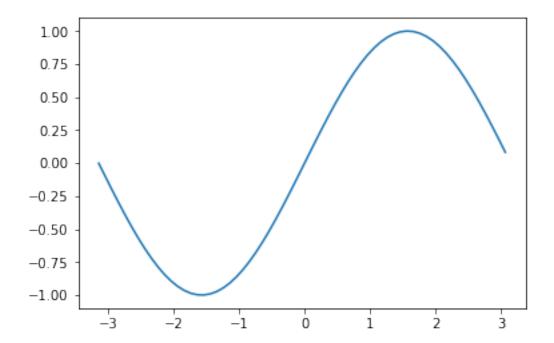
## April 12, 2020

```
In [1]: ## Python basics for novice data scientists, supported by Wagatsuma Lab@Kyutech
        # The MIT License (MIT): Copyright (c) 2020 Hiroaki Wagatsuma and Wagatsuma Lab@Kyutec
        # Permission is hereby granted, free of charge, to any person obtaining a copy of this
        # The above copyright notice and this permission notice shall be included in all copie
        # THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
        # # @Time : 2020-4-20
        # # @Author : Hiroaki Wagatsuma
        {\it \#\ \#\ @Site} \qquad :\ https://github.com/hirowgit/2A\_python\_basic\_course
                   : Python 3.7.7 (default, Mar 10 2020, 15:43:27) [Clang 10.0.0 (clang-1000
        # # @IDE
        # # @File : lec1_step3.py
In [2]: # running without modules on mathematics
        рi
        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

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



- 0 2.0
- 1 4.0
- 2 6.0
- 3 NaN
- 4 7.0
- 5 9.0

dtype: float64

## In []: