Calling Python script from MATLAB

This is a sample project to demonstrate how to call Python script from MATLAB.

Part 1: calling python method (def in Lib.py)

```
py.modules.Lib.Show_Text('KAZUKI')
Input value is My name is Kazuki

val = py.modules.Lib.Plus(1,2)

val = 3
```

Part 2: calling python class (class in Lib.py)

```
cl = py.modules.Lib.TestClass(3.0,4.0)

cl =
   Python TestClass with properties:
   b: 4
   a: 3
   <modules.Lib.TestClass object at 0x00000000FDCCD1D0>

r = cl.Multiply_Values()

r = 12
```

Part 3: Running python code itself (Run.py)

```
system('python modules/Run.py');

Dice 1 is 4
Dice 2 is 1
Sum is odd number.

# Appendix A: Lib.py

def Show_Text(text):

print('Input value is: {0}'.format(text))

def Plus(a,b):

return a+b

class TestClass():

def __init__(self,a,b):

self.a = a

self.b = b
```

```
def Multiply_Values(self):
    return self.a*self.b

Appendix B: Run.py
import numpy as np
dice1 = np.random.randint(1,7)
dice2 = np.random.randint(1,7)
print('Dice 1 is {0}'.format(dice1))
print('Dice 2 is {0}'.format(dice2))
if (dice1+dice2)%2 == 0:
    print('Sum is even number.')
else:
    print('Sum is odd number.')
```