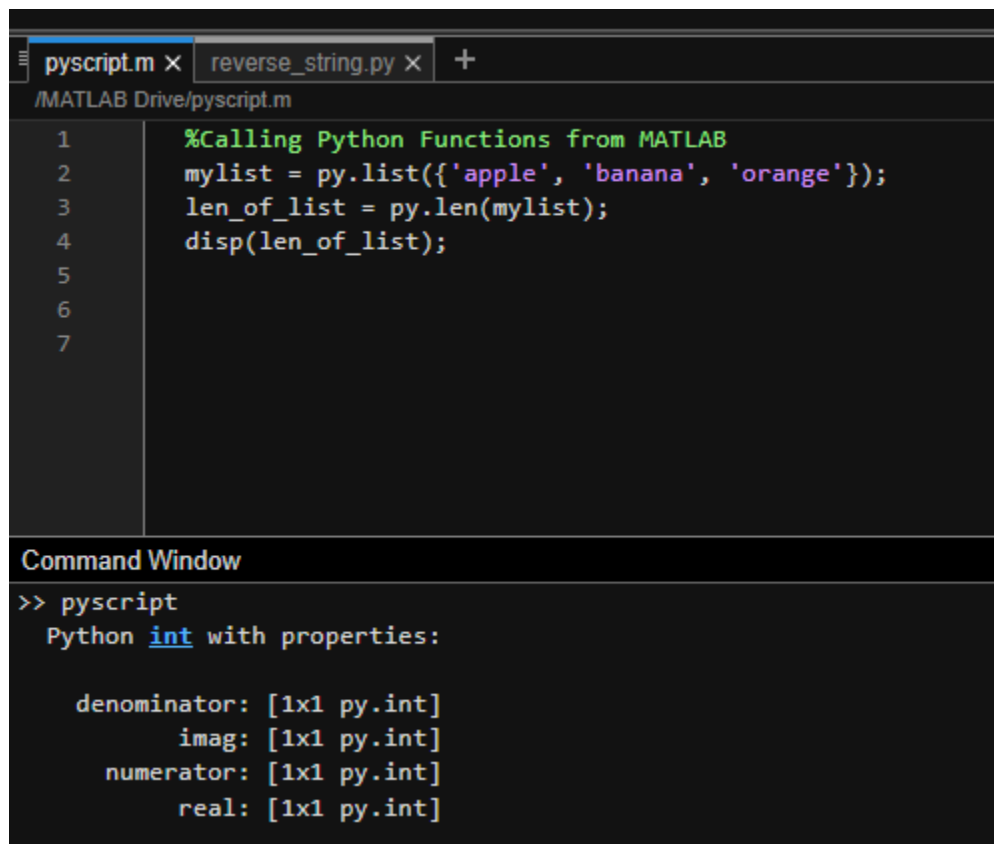


Calling Python Functions from MATLAB:



The image shows a MATLAB environment with two windows. The top window is the MATLAB Editor, showing a script named 'pyscript.m' with the following code:

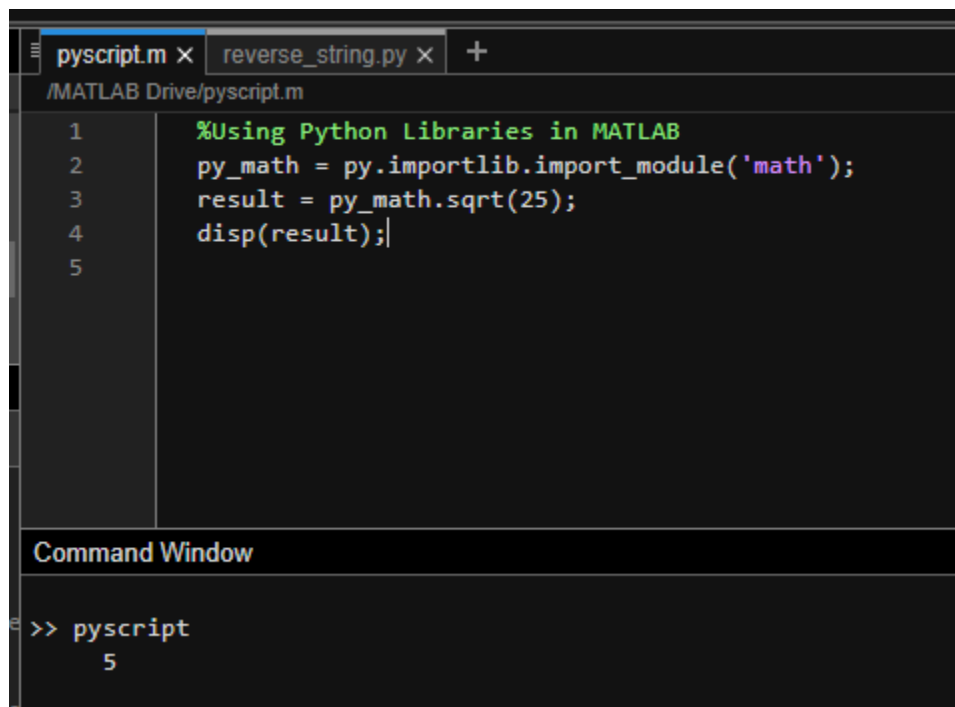
```
1 %Calling Python Functions from MATLAB
2 mylist = py.list({'apple', 'banana', 'orange'});
3 len_of_list = py.len(mylist);
4 disp(len_of_list);
5
6
7
```

The bottom window is the Command Window, showing the output of the script:

```
>> pyscript
Python int with properties:

denominator: [1x1 py.int]
imag: [1x1 py.int]
numerator: [1x1 py.int]
real: [1x1 py.int]
```

Using Python Libraries in MATLAB:



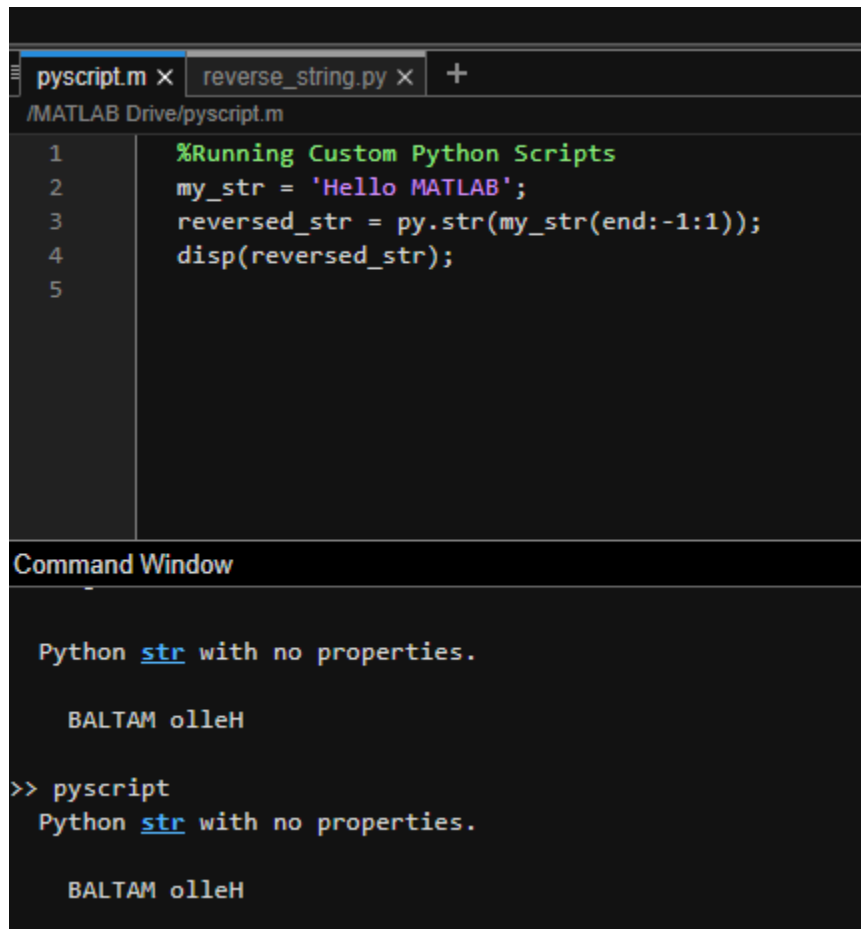
The image shows a MATLAB environment with two windows. The top window is the MATLAB Editor, showing a script named 'pyscript.m' with the following code:

```
1 %Using Python Libraries in MATLAB
2 py_math = py.importlib.import_module('math');
3 result = py_math.sqrt(25);
4 disp(result);
5
```

The bottom window is the Command Window, showing the output of the script:

```
>> pyscript
5
```

Running Custom Python Scripts:



The image shows a MATLAB environment with two windows. The top window is the MATLAB Editor, displaying a script named 'reverse_string.py'. The script contains four lines of Python code: a comment, a string assignment, a reversal operation using slicing, and a display command. The bottom window is the Command Window, showing the output of the script execution. It displays a warning about the 'str' object and the reversed string 'BALTAM olleH'.

```
pyscript.m × reverse_string.py × +
/MATLAB Drive/pyscript.m
1 %Running Custom Python Scripts
2 my_str = 'Hello MATLAB';
3 reversed_str = py.str(my_str(end:-1:1));
4 disp(reversed_str);
5

Command Window

Python str with no properties.

BALTAM olleH

>> pyscript
Python str with no properties.

BALTAM olleH
```

Full script:

```
pyscript.m x +
/MATLAB Drive/pyscript.m
13
14 %Running Custom Python Scripts
15 my_str = 'Hello MATLAB';
16 reversed_str = py.str(my_str(end:-1:1));
17 disp(reversed_str);
18

Command Window

>> pyscript
Python int with properties:

    denominator: [1x1 py.int]
         imag: [1x1 py.int]
    numerator: [1x1 py.int]
         real: [1x1 py.int]

3

5

Python str with no properties.

BALTAM olleH
```