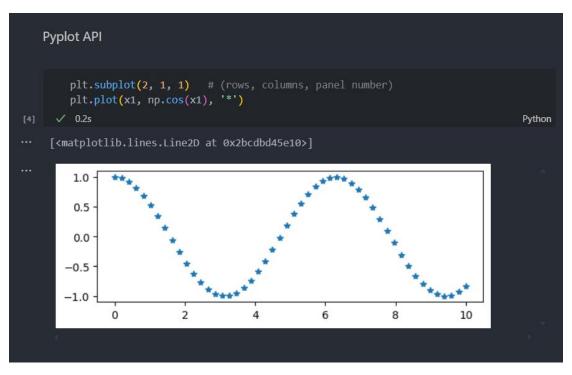
Matplotlib Tasks

```
MatplotLib Tasks

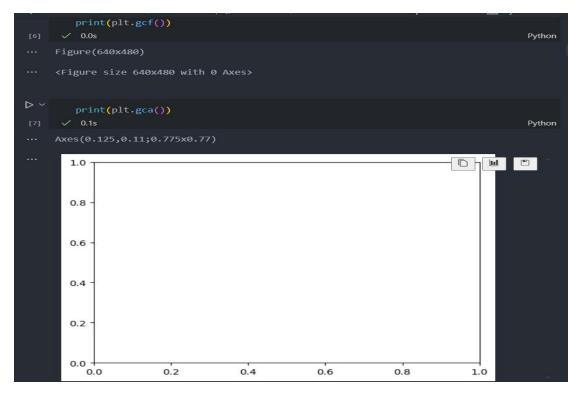
# Import dependencies
import numpy as np
# Import Matplotlib
import matplotlib.pyplot as plt

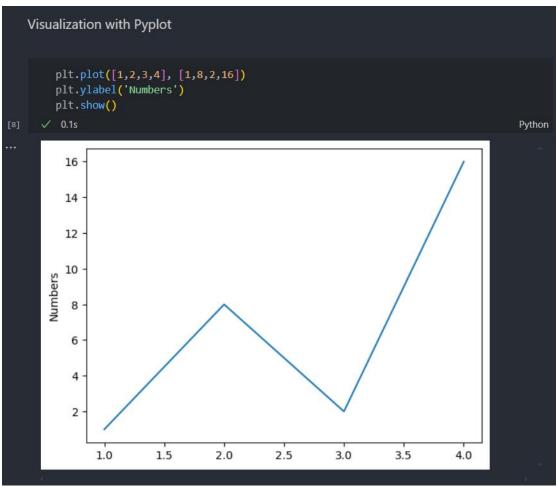
[2] ✓ 0.6s Python
```

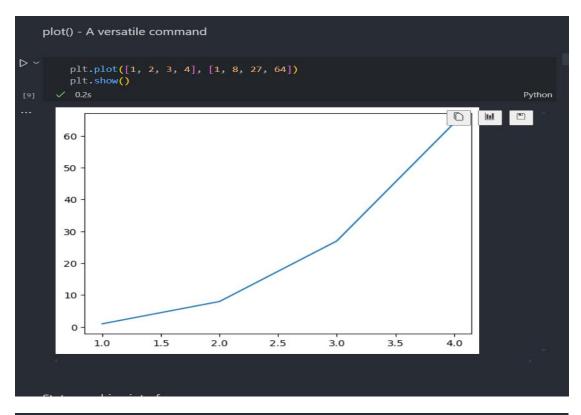
```
D ~
           %matplotlib inline
           x1 = np.linspace(0, 10, 50)
           plt.plot(x1, np.sin(x1), '-')
plt.plot(x1, np.cos(x1), '--')
#plt.plot(x1, np.tan(x1), '--')
           plt.show()
                                                                                                                     Python
            1.00
            0.75
            0.50 -
            0.25
            0.00
          -0.25
          -0.50
          -0.75
          -1.00
                       0
                                       2
                                                        4
                                                                        6
                                                                                        8
                                                                                                        10
```



```
plt.figure()
 plt.plot(x1, np.sin(x1))
plt.plot(x1, np.cos(x1));
                                                                                Python
 1.0
 0.5
 0.0
-0.5
-1.0
                                 4
                    2
        Ó
                                             6
                                                         8
                                                                     10
 1.0
 0.5
 0.0
-0.5 -
-1.0 -
        ò
                    2
                                             6
                                                         8
                                                                     10
```







```
State-machine interface

x = np.linspace(0, 2, 100)

plt.plot(x, x, label='linear')
plt.plot(x, x**2, label='quadratic')
plt.plot(x, x**3, label='cubic')

plt.xlabel('x label')
plt.ylabel('y label')

plt.title("Simple Plot")

plt.legend()

plt.show()

Python
```

