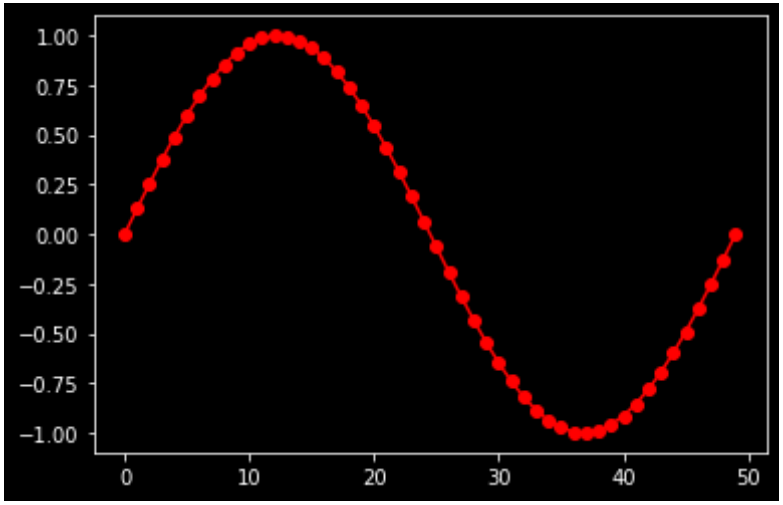
In [1]:
```
from matplotlib import pyplot as plt
from matplotlib import style
```

In [2]:
```
print(plt.style.available)
```

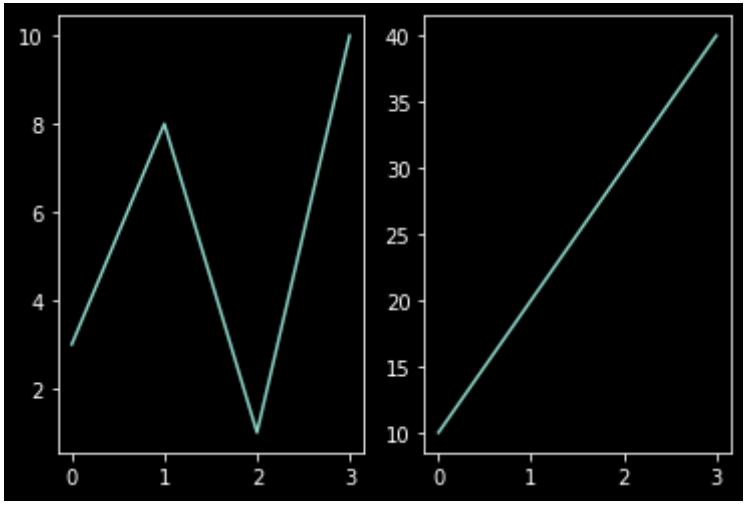
```
['Solarize_Light2', '_classic_test_patch', 'bmh', 'classic', 'dark_background', 'fast', 'fivethirtyeight', 'ggplot',
'grayscale', 'seaborn', 'seaborn-bright', 'seaborn-colorblind', 'seaborn-dark', 'seaborn-dark-palette', 'seaborn-dark
grid', 'seaborn-deep', 'seaborn-muted', 'seaborn-notebook', 'seaborn-paper', 'seaborn-pastel', 'seaborn-poster', 'sea
born-talk', 'seaborn-ticks', 'seaborn-white', 'seaborn-whitegrid', 'tableau-colorblind10']
```

In [5]:
```
import numpy as np
with plt.style.context('dark_background'):
    plt.plot(np.sin(np.linspace(0, 2 * np.pi)), 'r-o')
plt.show()
```



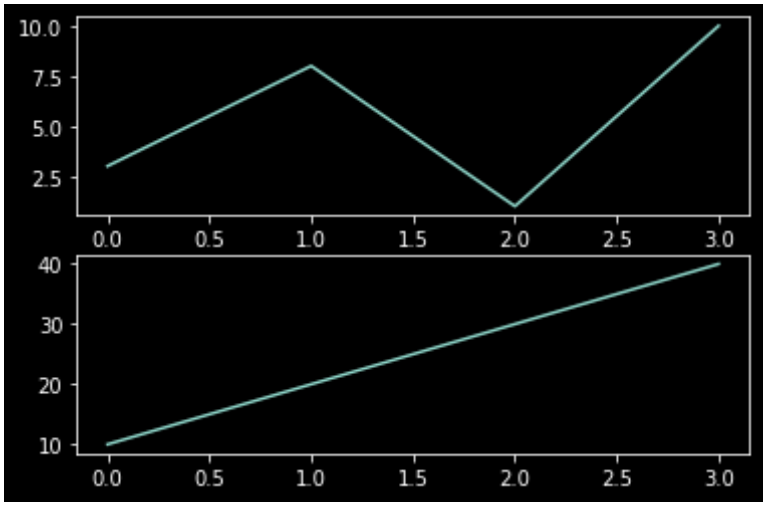
In [6]:
```
x = np.array([0, 1, 2, 3])
y = np.array([3, 8, 1, 10])

plt.subplot(1, 2, 1)
plt.plot(x,y)
```

```
x = np.array([0, 1, 2, 3])
y = np.array([10, 20, 30, 40])

plt.subplot(1, 2, 2)
plt.plot(x,y)

plt.show()
```



In [7]:

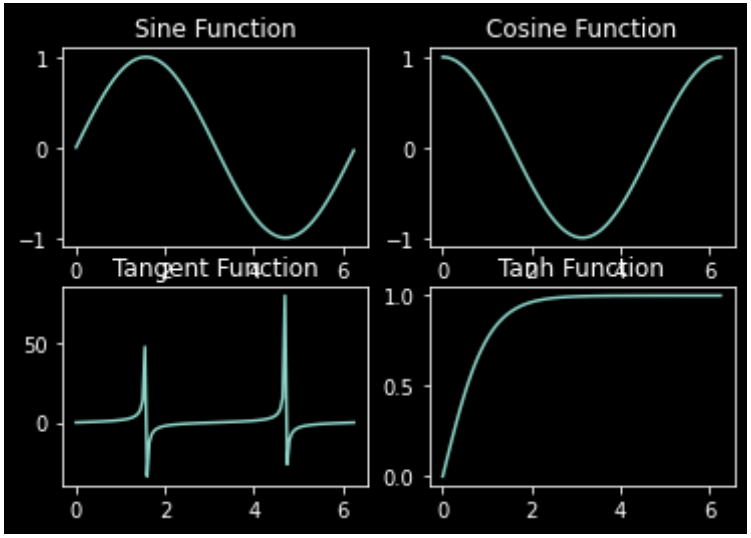
```
x = np.array([0, 1, 2, 3])
y = np.array([3, 8, 1, 10])

plt.subplot(2, 1, 1)
plt.plot(x,y)

x = np.array([0, 1, 2, 3])
y = np.array([10, 20, 30, 40])

plt.subplot(2, 1, 2)
plt.plot(x,y)

plt.show()
```



In [8]:

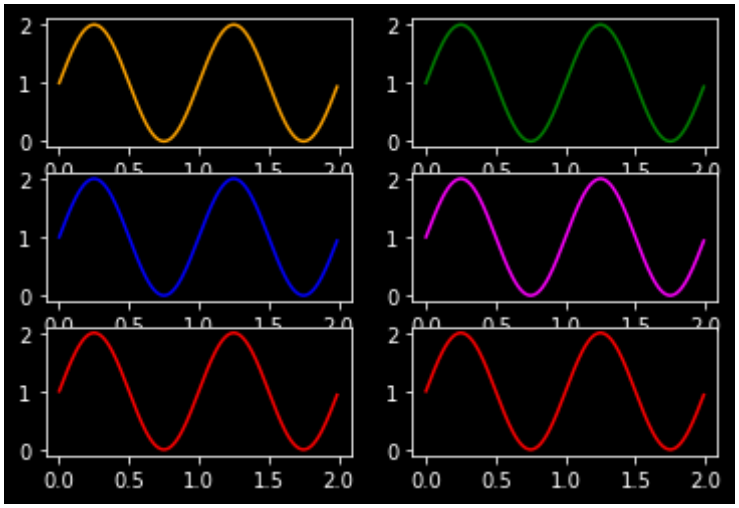
```
import math

X = np.arange(0, math.pi*2, 0.05)

Y1 = np.sin(X)
Y2 = np.cos(X)
Y3 = np.tan(X)
Y4 = np.tanh(X)

figure, axis = plt.subplots(2, 2)


axis[0, 0].plot(X, Y1)
axis[0, 0].set_title("Sine Function")


axis[0, 1].plot(X, Y2)
axis[0, 1].set_title("Cosine Function")


axis[1, 0].plot(X, Y3)
axis[1, 0].set_title("Tangent Function")


axis[1, 1].plot(X, Y4)
```

```
axis[1, 1].set_title("Tanh Function")


plt.show()
```



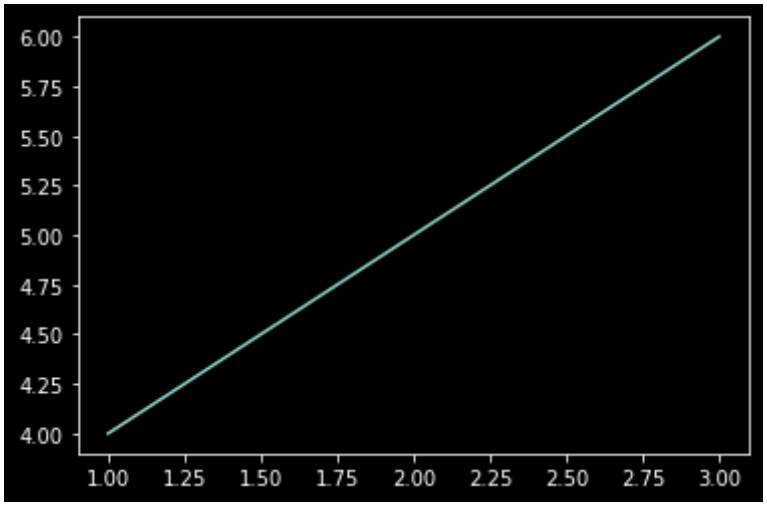
In [11]:

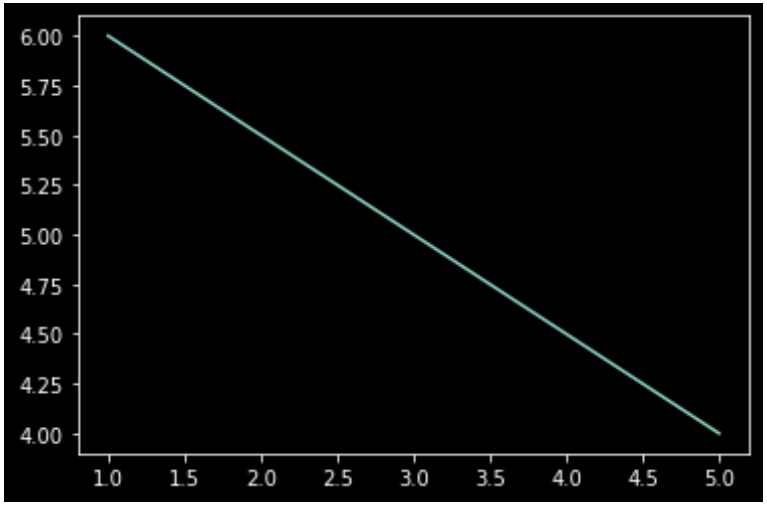
```
x = np.arange(0.0, 2.0, 0.01)
y = 1 + np.sin(2 * np.pi * x)

fig, ((ax1, ax2), (ax3, ax4), (ax5, ax6)) = plt.subplots(3, 2)
ax1.plot(x, y, color="orange")
ax2.plot(x, y, color="green")
ax3.plot(x, y, color="blue")
ax4.plot(x, y, color="magenta")
ax5.plot(x, y, color="red")
ax6.plot(x, y, color="red")
plt.show()
```



In [12]:

```
x1 = [1, 2, 3]
y1 = [4, 5, 6]

x2 = [1, 3, 5]
y2 = [6, 5, 4]

plot1 = plt.figure(1)
plt.plot(x1, y1)

plot2 = plt.figure(2)
plt.plot(x2, y2)

plt.show()
```





In [ ]: