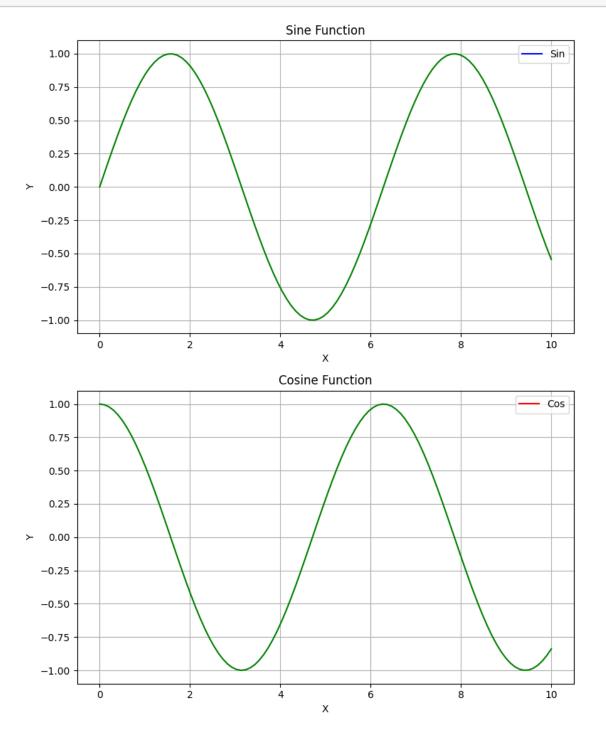
practical 9

February 13, 2024

Generate different subplots from a given plot and color plot data.

```
[1]: import numpy as np
import matplotlib.pyplot as plt
# Generate data for plotting
x = np.linspace(0, 10, 100) # Generate 100 evenly spaced points from 0 to 10
y1 = np.sin(x) # Sine function values
y2 = np.cos(x) # Cosine function values
# Create a figure and subplots
fig, axs = plt.subplots(2, 1, figsize=(8, 10))
# Plot data on the first subplot
axs[0].plot(x, y1, label='Sin', color='blue')
axs[0].set_title('Sine Function')
axs[0].set_xlabel('X')
axs[0].set_ylabel('Y')
axs[0].legend()
axs[0].grid(True)
# Plot data on the second subplot
axs[1].plot(x, y2, label='Cos', color='red')
axs[1].set_title('Cosine Function')
axs[1].set_xlabel('X')
axs[1].set_ylabel('Y')
axs[1].legend()
axs[1].grid(True)
# Adjust layout
plt.tight_layout()
# Color the plot data
for ax in axs:
    for line in ax.lines:
        line.set color('green')
# Show the plots
```





[]: