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Practical Ques. P9
#Generate different subplots from a given plot and color plot data.
import numpy as np
import matplotlib.pyplot as plt
# Create sample data
x = np.linspace(0, 10, 100)
y1 = np.sin(x)
y2 = np.cos(x)
y3 = np.tan(x)
# Create subplots
fig, axs = plt.subplots(3, 1, figsize=(8, 12))
# Plot data in each subplot with different colors
axs[0].plot(x, y1, color='blue')
axs[0].set_title('Sine Function')
axs[0].set_xlabel('X')
axs[0].set_ylabel('Y')
axs[1].plot(x, y2, color='red')
axs[1].set_title('Cosine Function')
axs[1].set_xlabel('X')
axs[1].set_ylabel('Y')
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axs[2].plot(x, y3, color='green')

axs[2].set_title('Tangent Function')
axs[2].set_xlabel('X')
axs[2].set_ylabel('Y')

Adjust layout
plt.tight_layout()

Show plot plt.show()





