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S11-07

Assignment No.9 - Data Visualization (Matplotlib)

Code:

```
import matplotlib.pyplot as plt
import numpy as np

# Data for semesters
sem1x = np.array(['m1','p1','c1','bee','mech'])
sem1y = np.array([73, 75, 67, 56, 70])

sem2x = np.array(['m2','p2','c2','cp','eg'])
sem2y = np.array([75, 60, 63, 66, 75])

sem3x = np.array(['m3','pcpf','poc','dbms','dsa'])
sem3y = np.array([90, 69, 54, 74, 75])

# Data for overall pointers
pointerx = np.array(['sem1','sem2','sem3'])
pointery = np.array([8.67, 8.83, 8.7])

# Create subplots
plt.figure(figsize=(12, 8))
```

```
# Subplot 4
plt.subplot(2, 3, 2)
plt.bar(pointerx, pointery, color = 'purple')
plt.title('Overall Pointer')

# Subplot 1
plt.subplot(2, 3, 4)
plt.bar(sem1x, sem1y)
plt.title('Semester 1')

# Subplot 2
plt.subplot(2, 3, 5)
plt.bar(sem2x, sem2y)
plt.title('Semester 2')

# Subplot 3
plt.subplot(2, 3, 6)
plt.bar(sem3x, sem3y)
plt.title('Semester 3')



# Adjust layout
plt.tight_layout()
```

Display the plot

plt.show()

Output: