```
import matplotlib.pyplot as plt
# Example x and y paired values
x1 = [4, 5, 6, 7, 8, 10, 15, 20]
y1 = [1.8871e-05, 5.9765e-05, 7.507e-05, 0.000387802, 0.000523492, 0.00291211, 0.163066, 3.76074]
x2 = [4, 5, 6, 7, 8, 10, 15, 20, 32]
# Create line plots for both sets of data
plt.plot(x1, y1, label='Exhaustive Optimization')
plt.plot(x2, y2, label='Dynamic Programming')
# Add labels and title
plt.xlabel('input size')
plt.ylabel('time')
plt.title('Exhaustive Optimization vs Dynamic Programming')
# Add a legend
plt.legend()
# Display the plot
plt.show()
```



