In [1]:
```
import pandas as pd
import matplotlib.pyplot as plt
```

In [3]:
```
df = pd.read_csv("FinanaceDetails.csv")  # Replace with your actual file name
```

In [4]:
```
df.head()  # Shows the first 5 rows
```

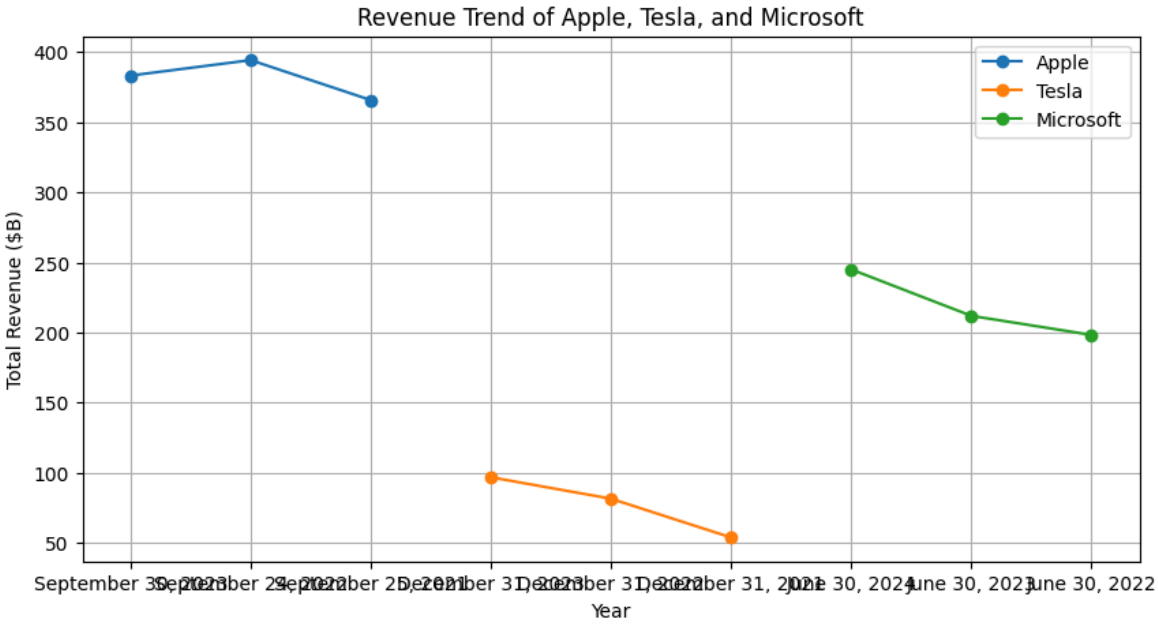
Out[4]:

	Company	Fiscal Year End Date	Total Revenue	Net Income	Total Assets	Total Liabilities	Operating Cash Flow
0	Apple	September 30, 2023	383.30	97.00	352.60	290.40	110.50
1	Apple	September 24, 2022	394.30	99.80	352.80	302.10	122.20
2	Apple	September 25, 2021	365.80	94.70	351.00	287.90	104.00
3	Tesla	December 31, 2023	96.77	15.00	106.62	36.40	13.26
4	Tesla	December 31, 2022	81.46	12.56	82.34	34.32	14.72

In [5]:
```
df['Revenue Growth (%)'] = df.groupby('Company')['Total Revenue'].pct_change() *
df['Net Income Growth (%)'] = df.groupby('Company')['Net Income'].pct_change() *
```

In [7]:
```
plt.figure(figsize=(10, 5))
for company in df['Company'].unique():
    subset = df[df['Company'] == company]
    plt.plot(subset['Fiscal Year End Date'], subset['Total Revenue'], marker='o'

plt.xlabel("Year")
plt.ylabel("Total Revenue ($B)")
plt.title("Revenue Trend of Apple, Tesla, and Microsoft")
plt.legend()
plt.grid()
plt.show()
```



Financial Summary (2022–2024)

Apple

- **Revenue**: Fluctuated slightly — $394B (2022)$,383B (2023), $391B (2024).
- **Net Income**: Declined steadily — $99.8B \rightarrow$93.7B.
- **Trend**: Stable performance with minor dips.

Tesla

- **Revenue**: Strong growth — $81.5B \rightarrow$97.7B.
- **Net Income**: Rose in 2023, then dipped in 2024 — $5.5B \rightarrow$7.5B → $7.1B.
- **Trend**: Growing revenue but profit under slight pressure.

Microsoft

- **Revenue**: Consistent growth — $198.3B \rightarrow$245.1B.
- **Assets**: Healthy cash reserves and a solid balance sheet.
- **Trend**: Strong and steady financial growth.