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import pandas as pd
from sklearn.decomposition import PCA
from sklearn.preprocessing import StandardScaler
import matplotlib.pyplot as plt

# Load the dataset
data = pd.DataFrame({
    'Variable_name': ["Total income", "Sales, government funding, grants and subsidies", "Interest, dividend:
        "Non-operating income", "Total expenditure", "Interest and donations", "Indirect taxes"
        "Depreciation", "Salaries and wages paid", "Redundancy and severance",
        "Salaries and wages to self-employed commission agents", "Purchases and other operating
        "Non-operating expenses", "Opening stocks", "Closing stocks", "Surplus before income t
        "Total assets", "Current assets", "Fixed tangible assets", "Other assets",
        "Total equity and liabilities", "Shareholders funds or owners equity", "Current liabil
        "Other liabilities", "Total income per employee count", "Surplus per employee count",
        "Current ratio", "Quick ratio", "Return on equity"],
    'Value': [930995, 821630, 84354, 25010, 832964, 55267, 7426, 30814, 147663, 269, 1639, 566979,
        23176, 80778, 88197, 105450, 2831894, 861255, 681890, 1288749, 2831893, 957410,
        1074693, 799791, 464600, 52600, 80, 72, 11]
})

# Extracting values for PCA
X = data[['Value']]

# Standardizing the data
scaler = StandardScaler()
X_scaled = scaler.fit_transform(X)

# Apply PCA to reduce dimensionality
pca = PCA(n_components=1)
X_pca = pca.fit_transform(X_scaled)

# Displaying PCA result
data['PCA_1'] = X_pca

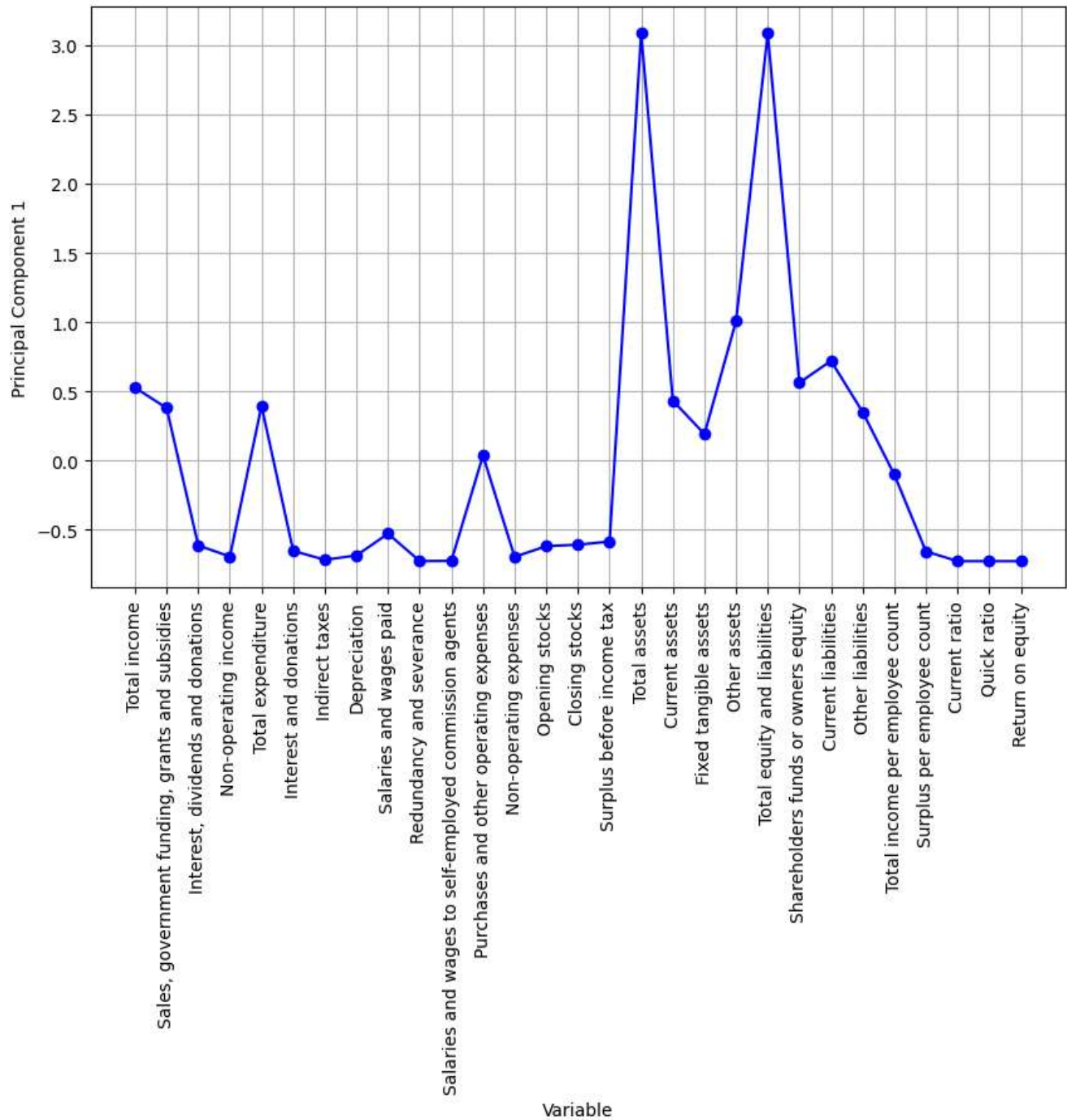
# Plotting the PCA result
plt.figure(figsize=(10, 6))
plt.plot(data['Variable_name'], data['PCA_1'], marker='o', linestyle='-', color='b')
plt.xlabel('Variable')
plt.ylabel('Principal Component 1')
plt.title('PCA Result of Financial Performance and Position')
plt.xticks(rotation=90)
plt.grid(True)
plt.show()

print(data[['Variable_name', 'PCA_1']])

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PCA Result of Financial Performance and Position



	Variable_name	PCA_1
0	Total income	0.526799
1	Sales, government funding, grants and subsidies	0.379610
2	Interest, dividends and donations	-0.612654
3	Non-operating income	-0.692522
4	Total expenditure	0.394864
5	Interest and donations	-0.651801
6	Indirect taxes	-0.716187
7	Depreciation	-0.684711
8	Salaries and wages paid	-0.527449
9	Redundancy and severance	-0.725820
10	Salaries and wages to self-employed commission...	-0.723976
11	Purchases and other operating expenses	0.036888
12	Non-operating expenses	-0.694990
13	Opening stocks	-0.617467
14	Closing stocks	-0.607482
15	Surplus before income tax	-0.584262
16	Total assets	3.085436

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16         total assets 3.085126
17         Current assets 0.432939
18         Fixed tangible assets 0.191541
19         Other assets 1.008283
20         Total equity and liabilities 3.085125
21         Shareholders funds or owners equity 0.562350
22         Current liabilities 0.720195
23         Other liabilities 0.350218
24         Total income per employee count -0.100899
25         Surplus per employee count -0.655390
26         Current ratio -0.726074
27         Quick ratio -0.726085
28         Return on equity -0.726167
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