```
import pandas as pd
```

```
df1 = pd.DataFrame({"Ticker":["XOM","GE","WMT","JNJ","BAC","AIG","TOT"],
                    "Portfolio weight":[1233,2345,3245,6532,4234,3879,4532],
                    "Annualizied volatility":[2.3,3.4,2.1,2.3,4,2.1,3.2],
                    "Beta against SPY":[4.3,4.4,2.1,2.3,4,2.1,3.2],
                    "Beta against IWM":[3.3,3.4,2.1,2.3,4,2.1,3.2],
                    "Beta against DIA":[5.3,3.4,2.1,2.3,4,2.1,3.2],
                    "Average Weekly Drawdown":[1.3,3.4,2.1,2.3,4,2.1,3.2],
                    "Maximum Weekly Drawdown":[1.3,3.4,2.1,2.3,4,2.1,3.2],
                    "Total Return":[1233,2345,3245,6532,4234,3879,4532],
                    "Annualized Total Return":[1233,2345,3245,6532,4234,3879,4532]})
print(df1)
               Portfolio weight Annualizied volatility Beta against SPY \
       Ticker
     0
          MOX
                            1233
                                                     2.3
                                                                        4.3
     1
           GE
                            2345
                                                     3.4
                                                                        4.4
     2
          WMT
                            3245
                                                     2.1
                                                                        2.1
     3
          JNJ
                            6532
                                                     2.3
                                                                        2.3
     4
          BAC
                            4234
                                                     4.0
                                                                        4.0
     5
          AIG
                            3879
                                                     2.1
                                                                        2.1
     6
          TOT
                            4532
                                                     3.2
                                                                        3.2
        Beta against IWM Beta against DIA Average Weekly Drawdown \
     0
                     3.3
                                        5.3
     1
                     3.4
                                        3.4
                                                                  3.4
     2
                                                                  2.1
                     2.1
                                        2.1
     3
                     2.3
                                        2.3
                                                                  2.3
     4
                     4.0
                                                                  4.0
                                        4.0
     5
                     2.1
                                        2.1
                                                                  2.1
     6
                     3.2
                                        3.2
                                                                  3.2
                                 Total Return Annualized Total Return
        Maximum Weekly Drawdown
     0
                                          1233
                             1.3
                                                                    1233
     1
                             3.4
                                          2345
                                                                    2345
     2
                             2.1
                                          3245
                                                                    3245
     3
                             2.3
                                          6532
                                                                    6532
     4
                                          4234
                             4.0
                                                                    4234
     5
                             2.1
                                          3879
                                                                    3879
     6
                             3.2
                                          4532
                                                                    4532
df2 = pd.DataFrame({"ETF Ticker":["XOM-T","GE-T","WMT-T","JNJ-T","BAC-T","AIG-T","TOT-T"],
                    "Correlation against ETF":[1.3,3.4,2.1,2.3,4,2.1,3.2],
                    "Covariance of Portfolio against ETF":[2.3,3.4,2.1,2.3,4,2.1,3.2],
                    "Tracking Errors (using trailing 10-years)":[4.3,4.4,2.1,2.3,4,2.1,3.2
                    "Sharpe Ratio (using current risk-free rate)":[3.3,3.4,2.1,2.3,4,2.1,3
                    "Annualized Volatility (252 days) Spread (Portfolio Volatility - ETF \
print(df2)
       ETF Ticker
                   Correlation against ETF Covariance of Portfolio against ETF
                                                                              2.3
     0
            XOM-T
                                        1.3
             GE-T
                                                                              3.4
     1
                                        3.4
```

```
result = pd.concat([df1,df2],axis=1)
result.head()
```

```
#correlation matrix
corr = result.corr()

corr.style.background_gradient(cmap='coolwarm')
```

		Portfolio weight	Annualizied volatility	Beta against SPY	Beta against IWM	Beta against DIA	Average Weekly Drawdown	Maxim Week Drawdo		
	Portfolio weight	1.000000	0.022688	-0.582196	-0.304381	-0.608457	0.280210	0.2802		
	Annualizied volatility	0.022688	1.000000	0.659345	0.873701	0.377895	0.921199	0.9211!		
	Beta against SPY	-0.582196	0.659345	1.000000	0.903148	0.871665	0.345779	0.3457		
<pre>import matplotlib.pyplot as plt from matplotlib.backends.backend_pdf import PdfPages fig, ax =plt.subplots(figsize=(12,4)) ax.axis('tight') ax.axis('off') the_table = ax.table(cellText=df1.values,colLabels=df1.columns,loc='center')</pre>										
pp.sa	PdfPages("ta vefig(fig, b ose()		'tight')							

Titar	Parificia antiglé	Beneficial volume	Bris agricul SFV	Bris sprinsi SWI	Bris agricul DM	Brange Worldy Drawless	National Parkly Desiries	Stal Srizes	Resolved 1
201	211	20		22	ti ti	3	20	211	
	201	=	-	=	=	=		201	
and .	215	2.	2.	z	2.	2.	2.	215	
N	60	20	20	20	20	20	20	60	
w.	411.		-		-		=	411.	
	317	z	z	z	z	z	z.	317	
tr.	810	12	12	12	12	12	12	810	

```
fig, ax =plt.subplots(figsize=(12,4))
ax.axis('tight')
ax.axis('off')
the_table = ax.table(cellText=df2.values,colLabels=df2.columns,loc='center')

pp = PdfPages("table2.pdf")
pp.savefig(fig, bbox_inches='tight')
pp.close()
```

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