The program starts by asking the user to enter 5 numbers that correspond to 5 out of the 7 Market Indices listed here

1 for DJI (Dow Jones)

2 for FCHI (FTSE)

3 for GDAXI (DAX)

4 for GSPC (S&P)

5 for HSI (Hang Seng)

6 for IXIC

7 for N225 (Nikkei)

The below data assumes the user selects the first 5 indices 1,2,3,4,5

Enter a number for the first Stock Index between 1 and 7; 1-DJI, 2-FCHI, 3-GDAXI, 4-GSPC, 5-HSI, 6-IXIC, 7-N225 : 1

Enter a number for the second Stock Index between 1 and 7; 1-DJI, 2-FCHI, 3-GDAXI, 4-GSPC, 5-HSI, 6-IXIC, 7-N225 : 2

Enter a number for the third Stock Index between 1 and 7; 1-DJI, 2-FCHI, 3-GDAXI, 4-GSPC, 5-HSI, 6-IXIC, 7-N225 : 3

Enter a number for the fourth Stock Index between 1 and 7; 1-DJI, 2-FCHI, 3-GDAXI, 4-GSPC, 5-HSI, 6-IXIC, 7-N225: 4

Enter a number for the fifth Stock Index between 1 and 7; 1-DJI, 2-FCHI, 3-GDAXI, 4-GSPC, 5-HSI, 6-IXIC, 7-N225 : 5

Machine generated alternative text:
Correlation matrix =  
[[ 1.          0.90963943]
 [ 0.90963943  1.        ]]
Correlation matrix =  
3


Machine generated alternative text:
[[ 1.          0.97203762]
 [ 0.97203762  1.        ]]
Correlation matrix =  
[[ 1.          0.99377797]
 [ 0.99377797  1.        ]]
4


Machine generated alternative text:
Correlation matrix =  
[[ 1.          0.83079524]
 [ 0.83079524  1.        ]]
5


Machine generated alternative text:
Correlation matrix =  
[[ 1.          0.94822539]
 [ 0.94822539  1.        ]]
Correlation matrix =  
6


Machine generated alternative text:
[[ 1.          0.92233891]
 [ 0.92233891  1.        ]]
Correlation matrix =  
[[ 1.          0.83155959]
 [ 0.83155959  1.        ]]
7

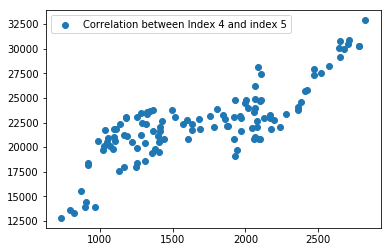

Machine generated alternative text:
Correlation matrix =  
[[ 1.          0.98525145]
 [ 0.98525145  1.        ]]
8


Machine generated alternative text:
Correlation matrix =  
[[ 1.          0.81098757]
 [ 0.81098757  1.        ]]
Correlation matrix =  
9


Correlation matrix =

[[ 1. 0.80670719]

[ 0.80670719 1. ]]



Observations:

* A scatter plot that looks like a straight slope line corresponds to high correlation, such as between DJI and S&P (1 and 4) which are both part of the US market.
* A scatter plot that is more thick and flat instead of thin slope line, corresponds to less correlation between the 2 indices