**18.How to plot the correlation matrix using matplot library in python?**

**Objective:**

* To plot the correlation matrix using python.

**Process:**

* Prepare the correlation matrix for the data frame.
* Import matplot library.
* Using plt.matshow() to plot the correlation matrix in python.

**Input:**

* Sample data set.

**Output:**

* Correlation matrix plot.

**Source code:**

#import library

import pandas as pd

import matplotlib.pyplot as plt

#sample data set

data={'salary':[1000,200,300,400,50,400,300,2000,

100,50],

'age':[25,26,25,23,30,29,23,23,25,25],

'rating':[4,3.24,2.5,2.25,2,2.25,2.5,2.75,3.2,4.2], 'bonus':[2500,1200,900,3000,1800,1400,850,250,750, 1000]}

#create and store the data in a data frame

df=pd.DataFrame(data)

#initialize the correlation method from pandas.

correlation = df.corr(method='pearson')

#print the correlation co efficients

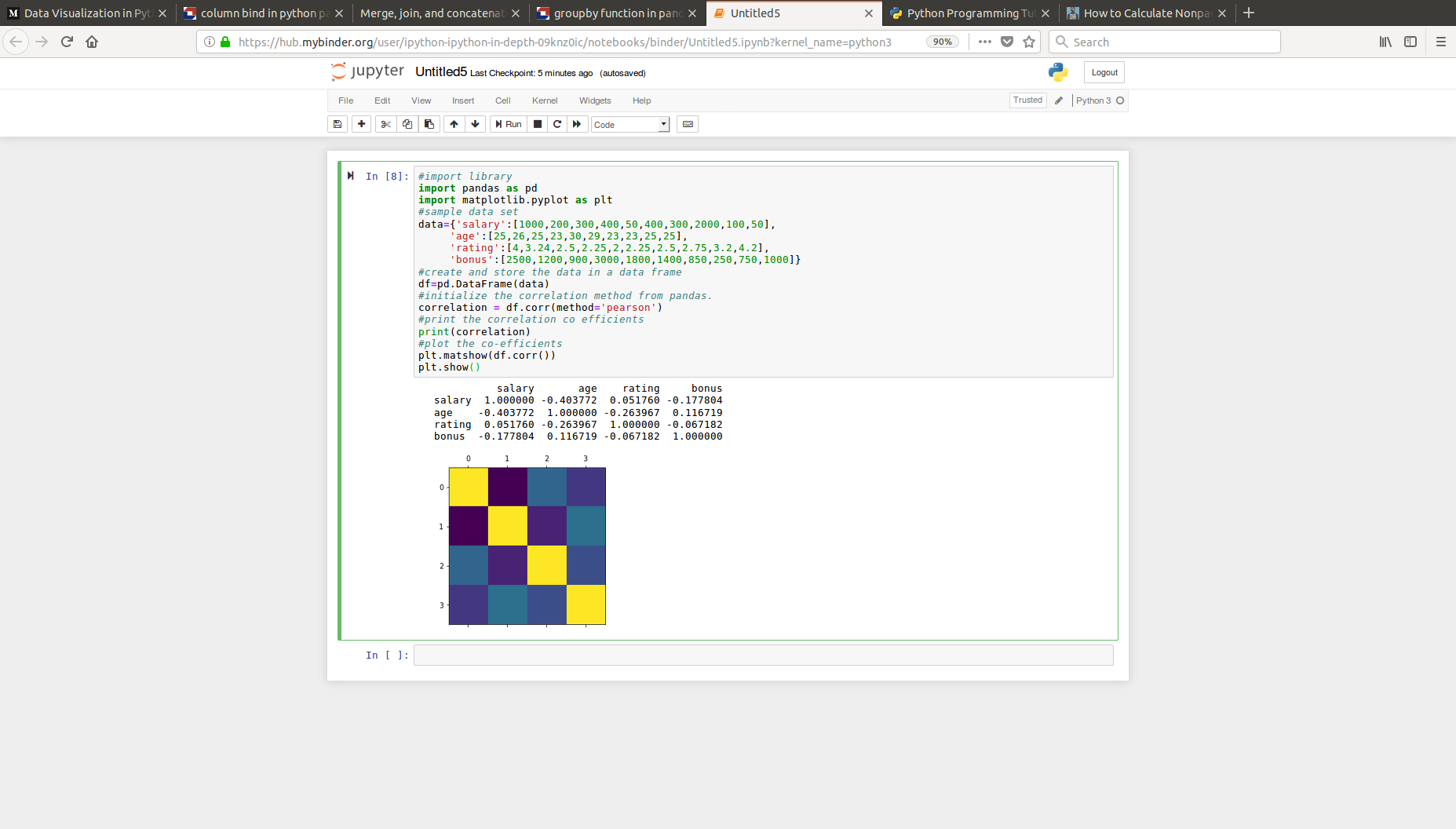
print(correlation)

#plot the co-efficients

plt.matshow(df.corr())

plt.show()

**Screen shots:**

****