```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
x = np.array([[5,3,2,1,4],[2,3,1,3,1],[3,10,5,10,2],[1,5,10,5,1],[1,3,3,4,1]])
h = np.array([[10,5,10,5,10],[5,10,5,10,5]])
df = pd.DataFrame(x.T)
        0 1 2 3 4
                          \blacksquare
     0 5 2 3
                  1 1
     1 3 3 10
                  5 3
     2 2 1 5 10 3
     3 1 3 10
                  5 4
      4 4 1 2 1 1
             Generate code with df
                                     View recommended plots
 Next steps:
df1 = pd.DataFrame(h.T)
df1
         0
             1
                 0 10
             5
         5 10
      2 10
             5
         5 10
      4 10
             5
             Generate code with df1
                                      View recommended plots
 Next steps:
cov = []
for column in df.columns:
  x = np.sum(df[column])
  x2 = np.dot(df[column],df[column])
  n = len(df[column])
  1 =[]
  for column1 in df1.columns:
   y = np.sum(df[column1])
   xy = np.dot(df[column],df1[column1])
   y2 = np.dot(df1[column1],df1[column1])
    r = (n*xy - x*y)/np.sqrt((n*x2 - x*x)*(n*y2 - y*y))
    1.append(r)
  cov.append(1)
cov
     [[1.539107682722815, 1.2871918058696765],
      [1.1451966686277364, 1.8786728732554483],
      [0.827044292141902, 1.5623182788174912],
      [0.801519108892418, 0.9777286923534022],
      [1.0456345194519838, 1.6569980994331448]]
Start coding or generate with AI.
```