```
Covariance matrix is:
[ 0.40242878 2.09900159 -0.01439466]
[-0.0025104 -0.01439466 0.08058254]]
Variance of x: 0.0806099157997998
Covariance matrix for x,y:
[[ 0.08060992  0.40242878]
[ 0.40242878 2.09900159]]
Covariance matrix for y,z:
[[ 2.09900159 -0.01439466]
[-0.01439466 0.08058254]]
eigvalues are [ 2.17638133  0.00333122  0.0804815 ]
eigenVectors are
[[ 0.18857784 0.982048 0.00448705]
[0.98203351 - 0.18860355 \ 0.00623651]
[-0.00697082 -0.00323037 0.99997049]]
transform matrix is:
[[0.18857784 \ 0.98203351 - 0.00697082]
[ 0.00448705  0.00623651  0.99997049]
```

[0.982048 -0.18860355 -0.00323037]]



