

```
import numpy as np
A=np.array([[3,0],[4,5]])
U,sigma,VT=np.linalg.svd(A)
sigma_matrix = np.diag(sigma)
print("Matrix A in SVD form: ")
print("U Matrix: ")
print(U)
print("\n Sigma Matrix: ")
print(sigma_matrix)
print("\nVT Matrix: ")
print(VT)
print("\n A=[U][sigma_matrix][VT] form:")
print("\n[U]")
print(U)
print("\n[sigma]")
print(sigma_matrix)
print("\n[VT]")
print(VT)
```