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Run Code

multidimensional array

In [3]:
```
import numpy as np
```

In [5]:
```
A = np.array([[1, 2], [5, 4]])
B = np.array([[5, 8], [7, 9]])

C = np.dot(A, B)

print(C)
```

```
[[19 26]
 [53 76]]
```

In [ ]:

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Run Code

inversion

In [1]:
```
import numpy as np
```

In [3]:
```
a = np.array([[6, 2], [1, 9]])

b = np.linalg.inv(a)
print(b)
```

```
[[ 0.17307692 -0.03846154]
 [-0.01923077  0.11538462]]
```

In [ ]:

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Run Markdown

eign vector and values

In [1]:
```
import numpy as np
```

In [6]:
```
a = np.array([[2, 5], [3, 8]])
eigenvalues, eigenvectors = np.linalg.eig(a)
print(eigenvalues)
print(eigenvectors)
```

```
[0.10102051 9.89897949]
[[-0.93484692 -0.53484692]
 [ 0.35505103 -0.84494897]]
```

In [ ]:

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mean

In [1]:
```
import numpy as np
```

In [8]:
```
a = np.array([1, 2, 3, 4,8, 5,7])
mean = np.mean(a)

print(mean)
```

```
4.285714285714286
```

In [ ]:


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Run
Code
standard deviation
In [1]:
import numpy as np
In [10]:
a= np.array([1, 2, 3, 4, 5])
std = np.std(a)
print(std)
1.4142135623730951
In [ ]: