

```
import numpy as np
```

Matrix multiplication

```
a = np.array([[1, -3, 2], [4, 0, -5]])  
print(a)
```

```
↳  $\begin{bmatrix} 1 & -3 & 2 \\ 4 & 0 & -5 \end{bmatrix}$ 
```

```
a.shape
```

```
↳ (2, 3)
```

```
b= np.array([[3],[1],[2]])  
print(b)
```

```
↳  $\begin{bmatrix} 3 \\ 1 \\ 2 \end{bmatrix}$ 
```

```
c = np.matmul(a,b)  
print(c)
```

```
↳  $\begin{bmatrix} 4 \\ 2 \end{bmatrix}$ 
```

```
d = np.dot(a,b )  
print(d)
```

```
↳  $\begin{bmatrix} 4 \\ 2 \end{bmatrix}$ 
```

```
d.shape
```

```
↳ (2, 1)
```

