numpy sample_1

July 5, 2022

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

[ ]:
```
A = np.array([[1, 2, 3], [4, 5, 6]])
A
```

[ ]:
```
array([[1, 2, 3],
       [4, 5, 6]])
```

[ ]:
```
B = np.array([[7, 8], [9, 10], [11, 12]])
B
```

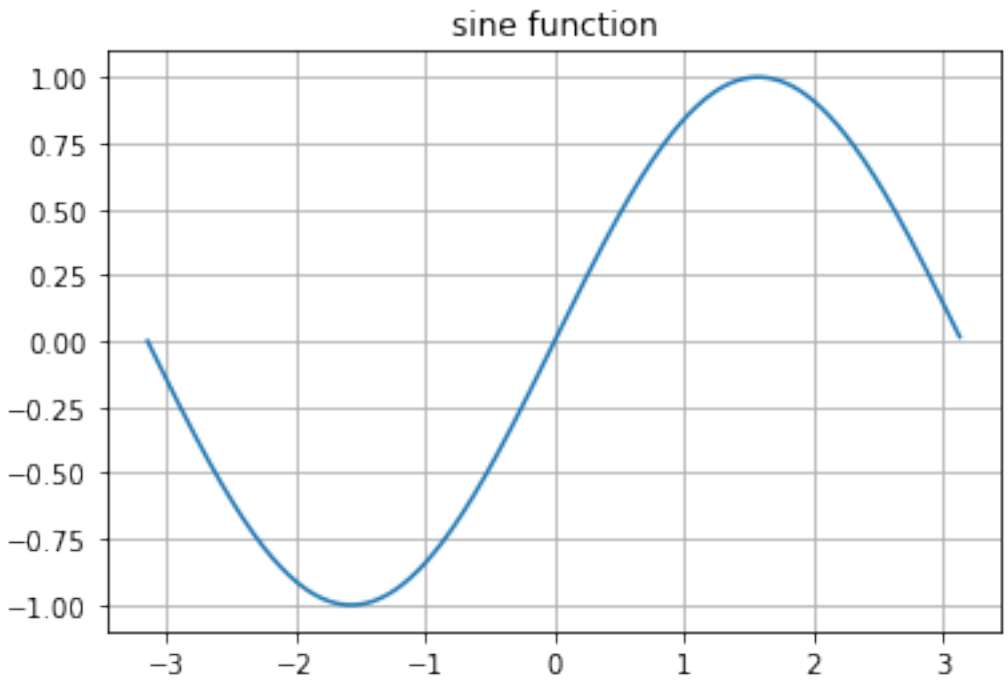
[ ]:
```
array([[ 7,  8],
       [ 9, 10],
       [11, 12]])
```

[ ]:
```
dot_product = np.dot(A, B)
print('A*B=\n', dot_product) #\n new line
```

```
A*B=
 [[ 58  64]
 [139 154]]
```

[ ]:
```
import matplotlib.pyplot as plt
```

[ ]:
```
x = np.arange(-1.0, 1.0, 0.005) * np.pi #numpy.arange(start, stop, step)
s = np.sin(x)
plt.title("sine function")
plt.grid(True)
plt.plot(x, s)
plt.show()
```


sine function
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
−3
−2
−1
0
1
2
3

[ ]: