→ Sigmoid Function

```
import warnings
warnings.filterwarnings('ignore')
```

⋆ I. Sigmoid Activation

▼ 1) sigmoid() 정의

```
import numpy as np

def sigmoid(x):
    y_hat = 1 / (1 + np.exp(-x))
    return y_hat
```

▼ 2) sigmoid() 실행

```
sigmoid(0)

0.5

sigmoid(100000000)

1.0

sigmoid(-100000000)

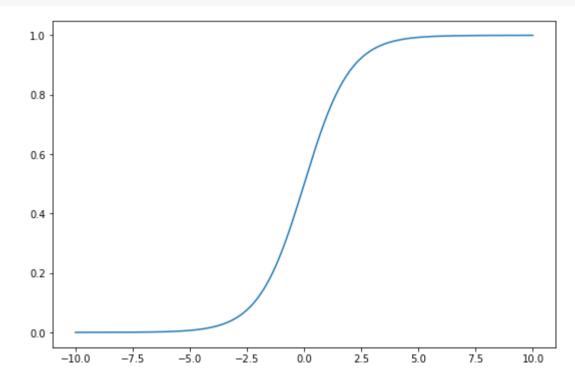
0.0
```

▼ 3) sigmoid() 시각화

```
import matplotlib.pyplot as plt

n = np.linspace(-10.0, 10.0, 2000)

plt.figure(figsize = (9, 6))
plt.plot(n, sigmoid(n))
plt.show()
```



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The End

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