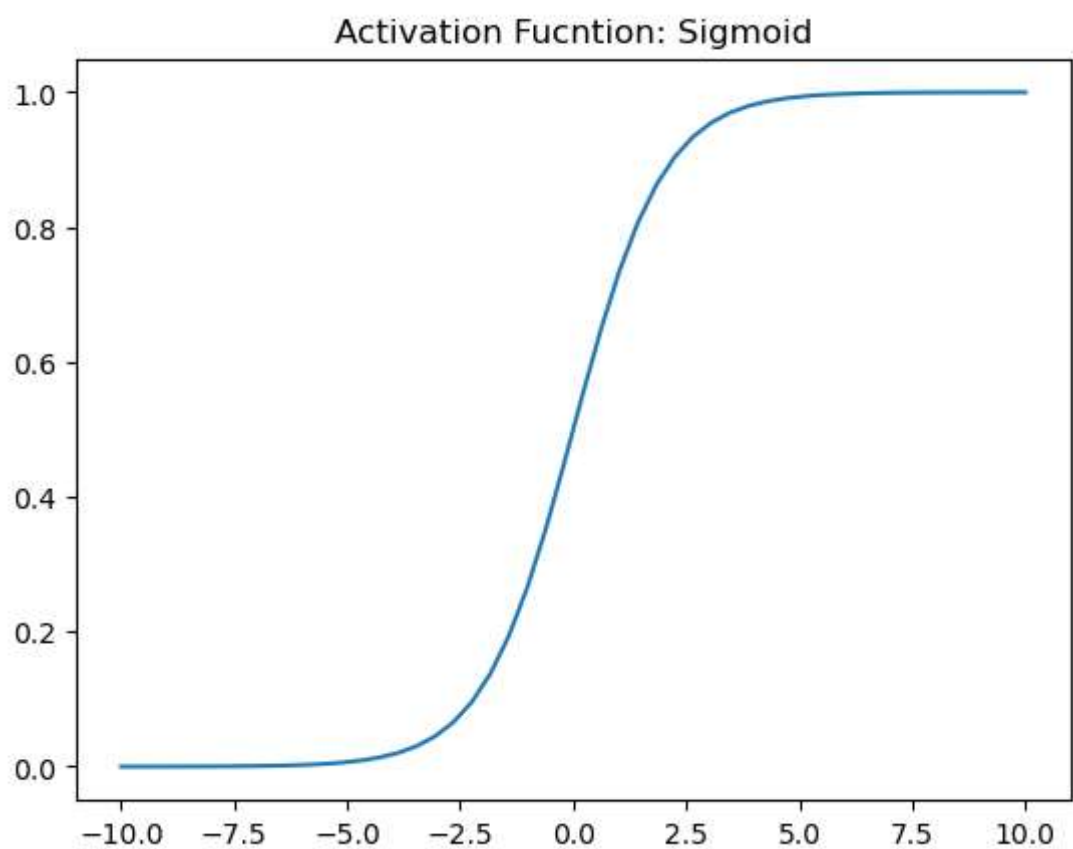


Assignment 1

```
In [1]: 1 import numpy as np
        2 import matplotlib.pyplot as plt
```

```
In [2]: 1 #sigmoid activation function
        2 def sig(x):
        3     return 1/(1 + np.exp(-x))
```

```
In [3]: 1 x = np.linspace(-10, 10, 50)
        2 p = sig(x)
        3 plt.plot(x, p)
        4 plt.title("Activation Fucntion: Sigmoid")
        5 plt.show()
```



```
In [4]: 1 #tanh activation function
        2 def tanh(x):
        3     ''' It returns the value (1-exp(-2x))/(1+exp(-2x)) and the value retu
        4     return np.tanh(x)
```

In [7]:

```
1 x = np.linspace(-10, 10)
2 plt.plot(x, tanh(x))
3 plt.title('Activation Function: Tanh')
4 plt.show()
```

