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

# Sigmoid function
    def sigmoid(x):
        return 1 / (1 + np.exp(-x))

In [2]: def tanh(x):
        return np.tanh(x)

In [3]: x = np.random.randn(100)

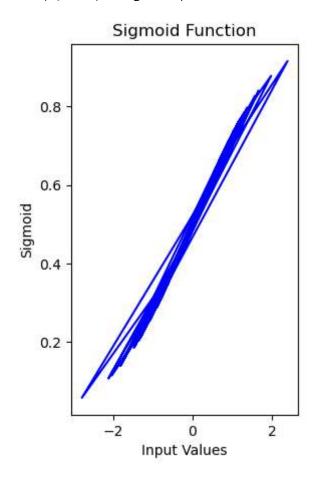
In [4]: sigmoid_values = sigmoid(x)
    tanh_values = tanh(x)

In [5]: plt.figure(figsize=(10, 5))

Out[5]: <Figure size 1000x500 with 0 Axes>
```

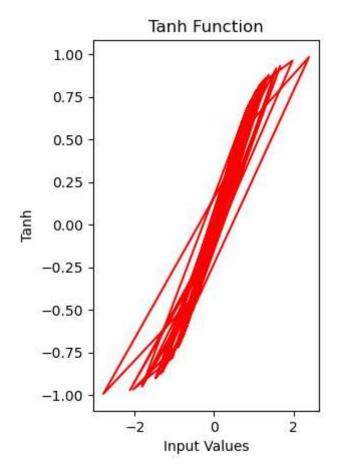
```
In [6]: plt.subplot(1, 2, 1)
    plt.plot(x, sigmoid_values, 'b', label="Sigmoid")
    plt.title('Sigmoid Function')
    plt.xlabel('Input Values')
    plt.ylabel('Sigmoid')
```

## Out[6]: Text(0, 0.5, 'Sigmoid')



```
In [7]: plt.subplot(1, 2, 2)
    plt.plot(x, tanh_values, 'r', label="Tanh")
    plt.title('Tanh Function')
    plt.xlabel('Input Values')
    plt.ylabel('Tanh')
```

## Out[7]: Text(0, 0.5, 'Tanh')



In [ ]: