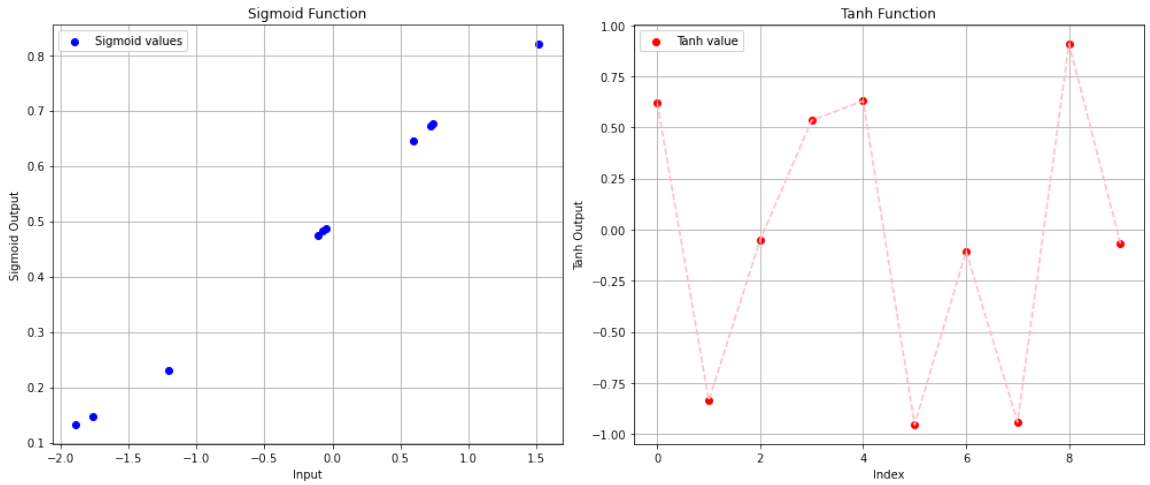
In [3]:
```
import numpy as np
import matplotlib.pyplot as plt


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


def tanh(x):
    return np.tanh(x)


random_values = np.random.randn(10)


sigmoid_values = sigmoid(random_values)
tanh_values = tanh(random_values)
indices=np.arange(len(random_values))


plt.figure(figsize=(14, 6))


plt.subplot(1, 2, 1)
plt.scatter(random_values, sigmoid_values, c='blue', label='Sigmoid values')
plt.title('Sigmoid Function')
plt.xlabel('Input')
plt.ylabel('Sigmoid Output')
plt.grid(True)
plt.legend()


plt.subplot(1, 2, 2)
plt.scatter(indices, tanh_values, c='red', label='Tanh value')
plt.plot(indices,tanh_values,color='pink',linestyle='--')
plt.title('Tanh Function')
plt.xlabel('Index')
plt.ylabel('Tanh Output')
plt.grid(True)
plt.legend()

plt.tight_layout()
plt.show()
```



In [ ]:

In [ ]: