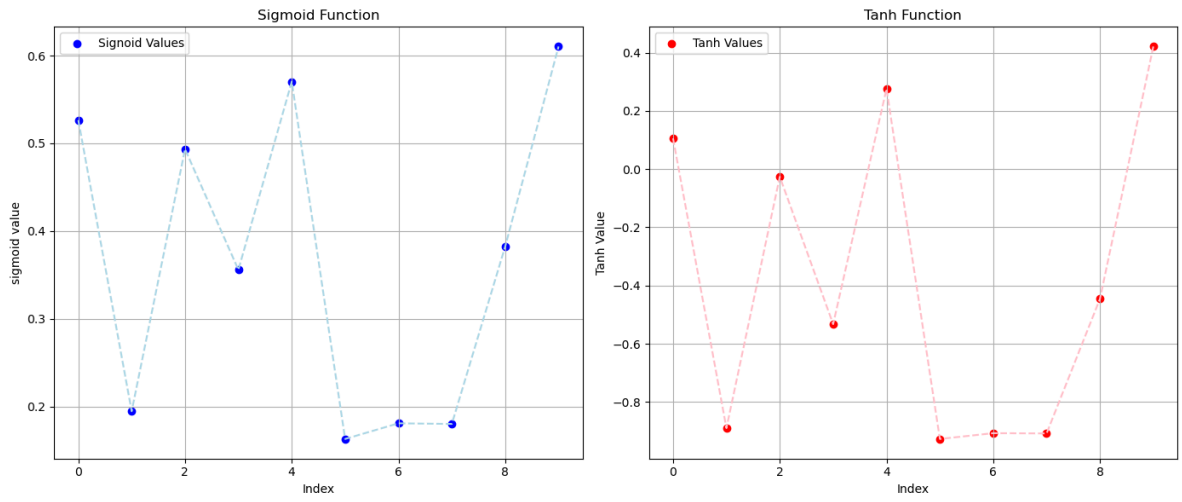
In [1]:
```
import numpy as np
import matplotlib.pyplot as plt
def sigmoid(x):
    return 1/(1+np.exp(-x))
def tanh(x):
    return np.tanh(x)
random_values=np.random.randn(10)
sigmoid_values= sigmoid(random_values)
tanh_values= tanh(random_values)
indices=np.arange(len(random_values))
plt.figure(figsize=(14,6))
plt.subplot(1, 2, 1)
plt.scatter(indices, sigmoid_values, color='blue', label='Signoid Values')
plt.plot(indices, sigmoid_values, color='lightblue', linestyle='--')
plt.title('Sigmoid Function')
plt.xlabel('Index')
plt.ylabel('sigmoid value')
plt.grid(True)
plt.legend()

plt.subplot(1, 2, 2)
plt.scatter(indices, tanh_values, color='red', label='Tanh Values')
plt.plot(indices, tanh_values, color="pink", linestyle='--')
plt.title('Tanh Function')
plt.xlabel('Index')
plt.ylabel('Tanh Value')
plt.grid(True)
plt.legend()
plt.tight_layout()
plt.show()
```



In [ ]: