```
1. What is the result of the code, and explain?
        >>> X = 'iNeuron'
        >>> def func():
        print(X)
        >>> func()
In [1]: |X = 'iNeuron'
        def func():
            print(X)
        func()
        iNeuron
        2. What is the result of the code, and explain?
        >>> X = 'iNeuron'
        >>> def func():
        X = 'NI!'
        >>> func()
        >>> print(X)
In [2]: | X = 'iNeuron'
        def func():
            X = 'NI!'
            print(X)
        func()
        NI!
        3. What does this code print, and why?
        >>> X = 'iNeuron'
        >>> def func():
        X = 'NI'
        print(X)
        >>> func()
        >>> print(X)
In [3]: |X = 'iNeuron'
        def func():
            X = 'NI'
            print(X)
        func()
        print(X)
        ΝI
        iNeuron
        4. What output does this code produce? Why?
        >>> X = 'iNeuron'
        >>> def func():
        global X
        X = 'NI'
        >>> func()
```

```
>>> print(X)
In [4]: | X = 'iNeuron'
        def func():
            global X
            X = 'NI'
         func()
         print(X)
        ΝI
         5. What about this code—what's the output, and why?
         >>> X = 'iNeuron'
         >>> def func():
        X = 'NI'
        def nested():
        print(X)
        nested()
        >>> func()
         >>> X
In [5]: | X = 'iNeuron'
        def func():
            X = 'NI'
            def nested():
                 print(X)
            nested()
        func()
        Χ
        ΝI
Out[5]: 'iNeuron'
        6. How about this code: what is its output in Python 3, and explain?
        >>> def func():
        X = 'NI'
        def nested():
        nonlocal X
        X = 'Spam'
        nested()
         print(X)
        >>> func()
In [6]: def func():
            X = 'NI'
             def nested():
                 nonlocal X
                 X = 'Spam'
            nested()
             print(X)
         func()
         Spam
```

localhost:8888/notebooks/Downloads/Linear Regression/Untitled4.ipynb?kernel_name=python3

In []: