1. True or false: Every odd perfect square (1, 9, 25, 49, ...) is one more than a multiple of 8.

To test this hypothesis empirically, we will write some Python code.

Write a Python function that takes in one integer argument, `oddnum`. The function should check to see that the argument is actually odd, and should return `True` if the square of `oddnum` is equal to one more than a multiple of 8, and `False` otherwise.

2. Next, write some code to call your function on the numbers 9 and 11. If it returns true for both, print a message saying “the hypothesis appears to be true so far.” Otherwise, print the number that is a counter-example, and a message explaining that it is.

3. What is one question you have about the current material?