Q1

There is a function we are providing in for you in this problem called square. It takes one integer and returns the square of that integer value. Write code to assign a variable called xyz the value 5\*5 (five squared). Use the square function, rather than just multiplying with \*.

xyz = 25

print(square(xyz))

Q2

Write code to assign the number of characters in the string rv to a variable num\_chars.

rv = """Once upon a midnight dreary, while I pondered, weak and weary,

Over many a quaint and curious volume of forgotten lore,

While I nodded, nearly napping, suddenly there came a tapping,

As of some one gently rapping, rapping at my chamber door.

'Tis some visitor, I muttered, tapping at my chamber door;

Only this and nothing more."""

# Write your code here!

num\_chars=len(rv)

Q3

data-19-1: The code below initializes two variables, z and y. We want to assign the total number of characters in z and in y to the variable a. Which of the following solutions, if any, would be considered hard coding?

z = "hello world"

y = "welcome!"

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A. a = len("hello worldwelcome!")  
B. a = 11 + 8  
C. a = len(z) + len(y)  
D. a = len("hello world") + len("welcome!")  
E. none of the above are hardcoding.

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Correct.

1. Though we are using the len function here, we are hardcoding what len should return the length of. We are not referencing z or y.
2. This is hardcoding, we are writing in the value without referencing z or y.
3. Though we are using the len function here, we are hardcoding what len should return the length of each time we call len. We are not referencing z or y.