

Correct. Using the Change of Base formula: $\log_{100}10,000 = \frac{\log 10,000}{\log 100}$

Now $\log 10,000 = 4$, because $10^4 = 10,000$, and $\log 100 = 2$, because $10^2 = 100$.

Therefore: $\frac{\log 10,000}{\log 100} = \frac{4}{2} = 2$