An ideal gas

An ideal gas has a gas constant $R = 0.3\ kJ/kg \cdot K$ and a constant volume specific heat $c_v = 0.7 kJ/kg \cdot K$. If the gas has a temperature change of 100°C, what is the change in internal energy in kJ/kg?

Answer: 70.

Explanation: The change in internal energy is given by: $\Delta u = c_v \cdot \Delta T = 70 kJ/kg$