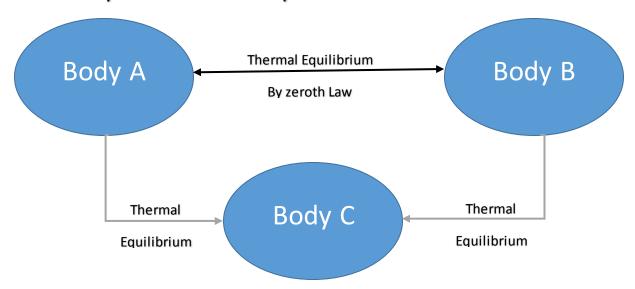
Three laws of thermodynamics

> Zeroth Law

If two bodies are in thermal equilibrium with a third body, then they are in thermal equilibrium with each other.



> First Law

Energy can neither ne created, nor be destroyed. It can only change its forms.

For a system,

Net energy transferred to/from System as heat and work
$$=$$
 energy of system $Q - W = \Delta E$

> Second Law

Heat itself cannot flow from a colder body to a hotter body.