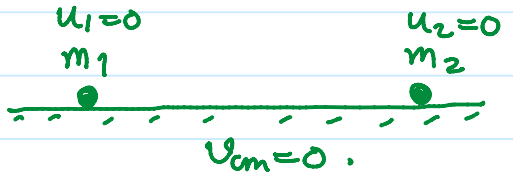
the final value of $\vec{v}_{cm}=0$ ⇒ cm of the system remains at rest.

Ex: $m_1 = 2\,kg$ and $m_2 = 3\,kg$ Initially



$v_1 = 6\,m/s$, $v_2 = ?$

$\because F^{ext}=0$, $(v_{cm})_{finally}=0$

$$(v_{cm})_{finally} = \frac{m_1 v_1 + m_2 v_2}{m_1+m_2}$$

$$0 = \frac{2\times 6 + 3\times v_2}{2+3} \Rightarrow 0 = \frac{12+3v_2}{5}$$

$$0 = 12+3v_2 \Rightarrow 3v_2 = -12$$

$$\boxed{v_2 = -4\,m/s}$$