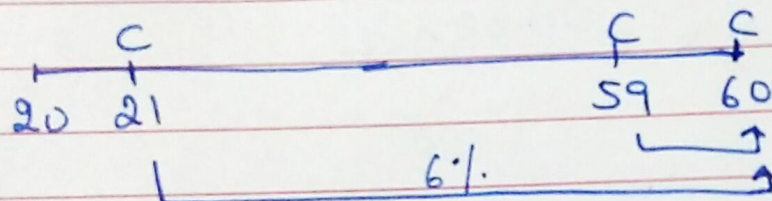


$$25000 + \frac{25000}{1.05} + \dots + \frac{25000}{(1.05)^{29}}$$

$$= 25000 \left(\frac{1 - \left(\frac{1}{1.05} \right)^{30}}{1 - \frac{1}{1.05}} \right)$$

$$= 403526.84$$



after (end) of year

$$C(1.06)^{39} + C(1.06)^{39} + \dots + C(1.06) + C$$

$$= C \left(\frac{(1.06)^{40} - 1}{1.06 - 1} \right) = 403526.84$$

(40 terms)

$$\Rightarrow C = \cancel{2444.91} 2667.40$$