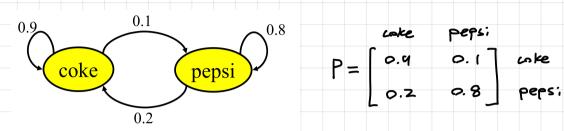
## Written Homework for Markov model

-201635825 21392-



$$P = \begin{bmatrix} 0.4 & 0.1 \end{bmatrix}$$
 when 
$$0.2 & 0.8 \end{bmatrix}$$
 pers:

$$\begin{bmatrix} 1 & 0 \end{bmatrix} \times \begin{bmatrix} 0.4 & 0.1 \\ 0.2 & 0.8 \end{bmatrix} = \begin{bmatrix} 0.4 & 0.1 \end{bmatrix}$$

$$pepsi \rightarrow peps;$$

$$\begin{bmatrix} 0.4 & 0.1 \\ 0.2 & 0.8 \end{bmatrix} = \begin{bmatrix} 0.2 & 0.8 \end{bmatrix}$$

: 0.18

$$Q_3$$
 60% now Lake [10] x [0.9 0.1] = [0.781 0.219]   
 $\Rightarrow$  Lake

40% now Pepsi [0 1] 
$$\times$$
 [0.9 0.1] = [0.438 0.562]