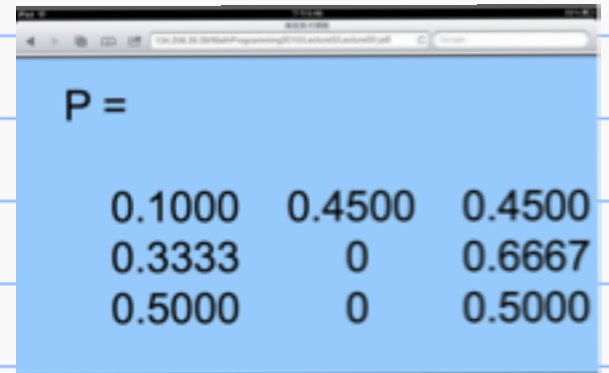


Draw while-loop flow charts for the following tasks

1. Get A, T, C or G alphabets repeatedly until 5 A's have been given.

2. $v_1 = (100 \ 600 \ 300)$. Evaluate

$$v_k = P^T v_{k-1}$$



A screenshot of a MATLAB console window showing a matrix P. The matrix is a 3x3 matrix with the following values:

P =		
0.1000	0.4500	0.4500
0.3333	0	0.6667
0.5000	0	0.5000

$$\lim_{k \rightarrow \infty} v_k = ?$$

3. Parse strings that satisfy syntax $(AT)^k CG$

Implement while-loop flow charts by Matlab codes.