Question: Calculate the PMI of the words **"cat"** and **"mat".** Apply Preprocessing and write all steps. Clearly write assumptions you make. Consider sliding window size = ± 1. First create a co-occurrence matrix with respect to window size.

CORPUS:

D1: THE CAT SAT ON THE MAT.
D2: THE DOG SAT ON THE MAT.
D3: THE CAT AND DOG SAT BESIDE EACH OTHER ON THE MAT.
D4: CATS AND DOGS ARE OFTEN CONSIDERED AS PETS BY HUMANS