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 $= \pm 1$. First create a co-occurrence matrix with respect to window size.

CORPUS: DI: 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 Adding due to readened values MAT AND SAT THE CAT 0 MAT 2 0

PMI(cat, mat)= (p(cat, mat)) = 0/8

P(cat). P(molt) = (5/8) (8/8)

log_(O) = vory minor value.

is very low,

PMI(cat, mat) = 0 As they both are target words they are not in the content of each other, Caccording to given corpus corpus and straing window sigo.

use max (formul, 0)