**RESULTS**

C:\Users\tugonawala\PycharmProjects\N-grams\venv\Scripts\python.exe C:/Users/tugonawala/PycharmProjects/N-grams/**main -N 2 -b 5**

5

Wrong value for Smoothing

Process finished with exit code 0

C:\Users\tugonawala\PycharmProjects\N-grams\venv\Scripts\python.exe C:/Users/tugonawala/PycharmProjects/N-grams/**main -N 8 -b 0**

8

Wrong value for N-gram Parameters

Process finished with exit code 0

C:\Users\tugonawala\PycharmProjects\N-grams\venv\Scripts\python.exe C:/Users/tugonawala/PycharmProjects/N-grams/**main -N 2 -b 0**

Total Unique Words 8070

Total Bigrams 28073

Total trigrams 36774

Total Sentences 2805

:::::::::::::::::::::::::::::::::::::::::::::::::::Test for Sentence 1::::::::::::::::::::::::::::::::::::::::

::Frequency Matrix::

[0, 0, 0, 37, 0, 0, 1, 0, 16, 0, 5, 0, 41, 0, 0]

[0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 69, 0, 0, 0, 0, 3, 0, 3, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 7, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 11, 0, 1, 0, 9]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0]

[0, 0, 0, 69, 0, 0, 0, 0, 13, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0]

[0, 0, 8, 35, 1, 0, 3, 0, 9, 0, 11, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

::Probability Matrix::

[0.0, 0.0, 0.0, 0.023581899298916506, 0.0, 0.0, 0.0006373486297004461, 0.0, 0.010197578075207138, 0.0, 0.0031867431485022306, 0.0, 0.026131293817718292, 0.0, 0.0]

[0.0, 0.0, 0.25, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.13450292397660818, 0.0, 0.0, 0.0, 0.0, 0.005847953216374269, 0.0, 0.005847953216374269, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.001075268817204301, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.3333333333333333, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.05384615384615385, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.006993006993006993, 0.0, 0.0, 0.0, 0.0, 0.0, 0.006993006993006993, 0.07692307692307693, 0.0, 0.006993006993006993, 0.0, 0.06293706293706294]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.05149253731343283, 0.0, 0.0, 0.0, 0.0, 0.009701492537313432, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.3333333333333333, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0068906115417743325, 0.030146425495262703, 0.0008613264427217916, 0.0, 0.002583979328165375, 0.0, 0.007751937984496124, 0.0, 0.009474590869939707, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Probability of Sentence 1 : 0.0

:::::::::::::::::::::::::::::::::::::::::::::::::::Test for Sentence 2::::::::::::::::::::::::::::::::::::::::

::Frequency Matrix::

[0, 57, 0, 37, 1, 41, 0, 0, 13, 0, 10, 229, 0, 8, 37, 0, 0, 0]

[0, 0, 31, 2, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 2, 0, 0, 11]

[0, 1, 0, 21, 0, 0, 0, 0, 3, 0, 5, 13, 0, 0, 21, 0, 0, 0]

[0, 0, 0, 0, 1, 0, 0, 2, 0, 0, 0, 0, 0, 0, 0, 0, 2, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 14, 3, 35, 0, 0, 0, 0, 4, 2, 3, 95, 0, 1, 35, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1]

[0, 4, 0, 25, 0, 0, 1, 0, 0, 66, 0, 97, 0, 0, 25, 0, 0, 0]

[0, 0, 0, 7, 0, 0, 0, 0, 0, 0, 1, 4, 0, 1, 7, 0, 0, 2]

[0, 2, 0, 5, 0, 1, 0, 0, 0, 0, 0, 70, 0, 0, 5, 0, 0, 1]

[0, 0, 0, 0, 1, 0, 0, 2, 0, 0, 0, 0, 2, 0, 0, 0, 2, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2]

[0, 2, 0, 12, 0, 0, 0, 0, 5, 0, 0, 67, 0, 0, 12, 1, 0, 1]

[0, 0, 0, 0, 1, 0, 0, 2, 0, 0, 0, 0, 0, 0, 0, 0, 2, 0]

[0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 2, 0, 0, 2, 0, 0, 0, 0, 3, 1, 0, 0, 0, 0, 0, 6]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

::Probability Matrix::

[0.0, 0.036328871892925434, 0.0, 0.023581899298916506, 0.0006373486297004461, 0.026131293817718292, 0.0, 0.0, 0.0082855321861058, 0.0, 0.006373486297004461, 0.14595283620140218, 0.0, 0.005098789037603569, 0.023581899298916506, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.11524163568773234, 0.007434944237918215, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0037174721189591076, 0.0, 0.0, 0.0, 0.007434944237918215, 0.0, 0.0, 0.040892193308550186]

[0.0, 0.004405286343612335, 0.0, 0.09251101321585903, 0.0, 0.0, 0.0, 0.0, 0.013215859030837005, 0.0, 0.022026431718061675, 0.05726872246696035, 0.0, 0.0, 0.09251101321585903, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.001075268817204301, 0.0, 0.0, 0.002150537634408602, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.002150537634408602, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.012058570198105082, 0.002583979328165375, 0.030146425495262703, 0.0, 0.0, 0.0, 0.0, 0.0034453057708871662, 0.0017226528854435831, 0.002583979328165375, 0.0818260120585702, 0.0, 0.0008613264427217916, 0.030146425495262703, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.1111111111111111, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.1111111111111111]

[0.0, 0.005509641873278237, 0.0, 0.03443526170798898, 0.0, 0.0, 0.0013774104683195593, 0.0, 0.0, 0.09090909090909091, 0.0, 0.13360881542699724, 0.0, 0.0, 0.03443526170798898, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.045454545454545456, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.006493506493506494, 0.025974025974025976, 0.0, 0.006493506493506494, 0.045454545454545456, 0.0, 0.0, 0.012987012987012988]

[0.0, 0.01020408163265306, 0.0, 0.025510204081632654, 0.0, 0.00510204081632653, 0.0, 0.0, 0.0, 0.0, 0.0, 0.35714285714285715, 0.0, 0.0, 0.025510204081632654, 0.0, 0.0, 0.00510204081632653]

[0.0, 0.0, 0.0, 0.0, 0.0004219409282700422, 0.0, 0.0, 0.0008438818565400844, 0.0, 0.0, 0.0, 0.0, 0.0008438818565400844, 0.0, 0.0, 0.0, 0.0008438818565400844, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.10526315789473684]

[0.0, 0.01015228426395939, 0.0, 0.06091370558375635, 0.0, 0.0, 0.0, 0.0, 0.025380710659898477, 0.0, 0.0, 0.3401015228426396, 0.0, 0.0, 0.06091370558375635, 0.005076142131979695, 0.0, 0.005076142131979695]

[0.0, 0.0, 0.0, 0.0, 0.001075268817204301, 0.0, 0.0, 0.002150537634408602, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.002150537634408602, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 1.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.05555555555555555, 0.0, 0.0, 0.05555555555555555, 0.0, 0.0, 0.0, 0.0, 0.08333333333333333, 0.027777777777777776, 0.0, 0.0, 0.0, 0.0, 0.0, 0.16666666666666666]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Probability of Sentence 2 : 0.0

========================================= FINAL RESULT ======================================================

Probability of both Sentences is same.

Process finished with exit code 0

C:\Users\tugonawala\PycharmProjects\N-grams\venv\Scripts\python.exe C:/Users/tugonawala/PycharmProjects/N-grams/**main -N 2 -b 1**

Total Unique Words 8070

Total Bigrams 28073

Total trigrams 36774

Total Sentences 2805

:::::::::::::::::::::::::::::::::::::::::::::::::::Test for Sentence 1::::::::::::::::::::::::::::::::::::::::

::Frequency Matrix::

[1, 1, 1, 38, 1, 1, 2, 1, 17, 1, 6, 1, 42, 1, 1]

[1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 70, 1, 1, 1, 1, 4, 1, 4, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 8, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 2, 1, 1, 1, 1, 1, 2, 12, 1, 2, 1, 10]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1]

[1, 1, 1, 70, 1, 1, 1, 1, 14, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1]

[1, 1, 9, 36, 2, 1, 4, 1, 10, 1, 12, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

::Probability Matrix::

[0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.0039423176678078636, 0.00010374520178441747, 0.00010374520178441747, 0.00020749040356883493, 0.00010374520178441747, 0.001763668430335097, 0.00010374520178441747, 0.0006224712107065049, 0.00010374520178441747, 0.004357298474945534, 0.00010374520178441747, 0.00010374520178441747]

[0.00012385434728758978, 0.00012385434728758978, 0.00024770869457517957, 0.00012385434728758978, 0.00012385434728758978, 0.00012385434728758978, 0.00012385434728758978, 0.00012385434728758978, 0.00012385434728758978, 0.00012385434728758978, 0.00012385434728758978, 0.00012385434728758978, 0.00012385434728758978, 0.00012385434728758978, 0.00012385434728758978]

[0.0001165093790050099, 0.0001165093790050099, 0.0001165093790050099, 0.008155656530350693, 0.0001165093790050099, 0.0001165093790050099, 0.0001165093790050099, 0.0001165093790050099, 0.0004660375160200396, 0.0001165093790050099, 0.0004660375160200396, 0.0001165093790050099, 0.0001165093790050099, 0.0001165093790050099, 0.0001165093790050099]

[0.00011111111111111112, 0.00011111111111111112, 0.00011111111111111112, 0.00011111111111111112, 0.00011111111111111112, 0.00022222222222222223, 0.00011111111111111112, 0.00011111111111111112, 0.00011111111111111112, 0.00011111111111111112, 0.00011111111111111112, 0.00011111111111111112, 0.00011111111111111112, 0.00011111111111111112, 0.00011111111111111112]

[0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097]

[0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0002477393781741608, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804]

[0.00012195121951219512, 0.00012195121951219512, 0.000975609756097561, 0.00012195121951219512, 0.00012195121951219512, 0.00012195121951219512, 0.00012195121951219512, 0.00012195121951219512, 0.00012195121951219512, 0.00012195121951219512, 0.00012195121951219512, 0.00012195121951219512, 0.00012195121951219512, 0.00012195121951219512, 0.00012195121951219512]

[0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069]

[0.00012175818823815901, 0.00012175818823815901, 0.00012175818823815901, 0.00024351637647631802, 0.00012175818823815901, 0.00012175818823815901, 0.00012175818823815901, 0.00012175818823815901, 0.00012175818823815901, 0.00024351637647631802, 0.0014610982588579083, 0.00012175818823815901, 0.00024351637647631802, 0.00012175818823815901, 0.0012175818823815902]

[0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00024780076818238137, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069, 0.00012390038409119069]

[0.00010626992561105207, 0.00010626992561105207, 0.00010626992561105207, 0.007438894792773645, 0.00010626992561105207, 0.00010626992561105207, 0.00010626992561105207, 0.00010626992561105207, 0.001487778958554729, 0.00010626992561105207, 0.00010626992561105207, 0.00010626992561105207, 0.00010626992561105207, 0.00010626992561105207, 0.00010626992561105207]

[0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0002477393781741608, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804, 0.0001238696890870804]

[0.00010833062506770663, 0.00010833062506770663, 0.0009749756256093598, 0.003899902502437439, 0.00021666125013541327, 0.00010833062506770663, 0.00043332250027082654, 0.00010833062506770663, 0.0010833062506770664, 0.00010833062506770663, 0.0012999675008124798, 0.00010833062506770663, 0.00010833062506770663, 0.00010833062506770663, 0.00010833062506770663]

[0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097]

[0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747]

Probability of Sentence 1 : 1.1512634571445797e-52

:::::::::::::::::::::::::::::::::::::::::::::::::::Test for Sentence 2::::::::::::::::::::::::::::::::::::::::

::Frequency Matrix::

[1, 58, 1, 38, 2, 42, 1, 1, 14, 1, 11, 230, 1, 9, 38, 1, 1, 1]

[1, 1, 32, 3, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 3, 1, 1, 12]

[1, 2, 1, 22, 1, 1, 1, 1, 4, 1, 6, 14, 1, 1, 22, 1, 1, 1]

[1, 1, 1, 1, 2, 1, 1, 3, 1, 1, 1, 1, 1, 1, 1, 1, 3, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 15, 4, 36, 1, 1, 1, 1, 5, 3, 4, 96, 1, 2, 36, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2]

[1, 5, 1, 26, 1, 1, 2, 1, 1, 67, 1, 98, 1, 1, 26, 1, 1, 1]

[1, 1, 1, 8, 1, 1, 1, 1, 1, 1, 2, 5, 1, 2, 8, 1, 1, 3]

[1, 3, 1, 6, 1, 2, 1, 1, 1, 1, 1, 71, 1, 1, 6, 1, 1, 2]

[1, 1, 1, 1, 2, 1, 1, 3, 1, 1, 1, 1, 3, 1, 1, 1, 3, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 3]

[1, 3, 1, 13, 1, 1, 1, 1, 6, 1, 1, 68, 1, 1, 13, 2, 1, 2]

[1, 1, 1, 1, 2, 1, 1, 3, 1, 1, 1, 1, 1, 1, 1, 1, 3, 1]

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::Probability Matrix::

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[0.0001199184554502938, 0.0001199184554502938, 0.0038373905744094015, 0.0003597553663508814, 0.0001199184554502938, 0.0001199184554502938, 0.0001199184554502938, 0.0001199184554502938, 0.0001199184554502938, 0.0001199184554502938, 0.0002398369109005876, 0.0001199184554502938, 0.0001199184554502938, 0.0001199184554502938, 0.0003597553663508814, 0.0001199184554502938, 0.0001199184554502938, 0.0014390214654035256]

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[0.00010833062506770663, 0.0016249593760155996, 0.00043332250027082654, 0.003899902502437439, 0.00010833062506770663, 0.00010833062506770663, 0.00010833062506770663, 0.00010833062506770663, 0.0005416531253385332, 0.00032499187520311994, 0.00043332250027082654, 0.010399740006499838, 0.00010833062506770663, 0.00021666125013541327, 0.003899902502437439, 0.00010833062506770663, 0.00010833062506770663, 0.00010833062506770663]

[0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097, 0.0001238850346878097]

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[0.00011368804001819008, 0.0005684402000909505, 0.00011368804001819008, 0.0029558890404729424, 0.00011368804001819008, 0.00011368804001819008, 0.00022737608003638017, 0.00011368804001819008, 0.00011368804001819008, 0.007617098681218736, 0.00011368804001819008, 0.011141427921782628, 0.00011368804001819008, 0.00011368804001819008, 0.0029558890404729424, 0.00011368804001819008, 0.00011368804001819008, 0.00011368804001819008]

[0.00012159533073929961, 0.00012159533073929961, 0.00012159533073929961, 0.0009727626459143969, 0.00012159533073929961, 0.00012159533073929961, 0.00012159533073929961, 0.00012159533073929961, 0.00012159533073929961, 0.00012159533073929961, 0.00024319066147859923, 0.0006079766536964981, 0.00012159533073929961, 0.00024319066147859923, 0.0009727626459143969, 0.00012159533073929961, 0.00012159533073929961, 0.00036478599221789884]

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[0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00012362467548522686, 0.00037087402645568057]

[0.00012096286440062901, 0.00036288859320188704, 0.00012096286440062901, 0.001572517237208177, 0.00012096286440062901, 0.00012096286440062901, 0.00012096286440062901, 0.00012096286440062901, 0.0007257771864037741, 0.00012096286440062901, 0.00012096286440062901, 0.008225474779242773, 0.00012096286440062901, 0.00012096286440062901, 0.001572517237208177, 0.00024192572880125802, 0.00012096286440062901, 0.00024192572880125802]

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[0.0001233654083395016, 0.0001233654083395016, 0.0003700962250185048, 0.0001233654083395016, 0.0001233654083395016, 0.0003700962250185048, 0.0001233654083395016, 0.0001233654083395016, 0.0001233654083395016, 0.0001233654083395016, 0.0004934616333580064, 0.0002467308166790032, 0.0001233654083395016, 0.0001233654083395016, 0.0001233654083395016, 0.0001233654083395016, 0.0001233654083395016, 0.0008635578583765112]

[0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747, 0.00010374520178441747]

Probability of Sentence 2 : 2.9579251519227513e-56

========================================= FINAL RESULT ======================================================

Probability of Sentence 1 is more than Sentence 2.

Process finished with exit code 0

C:\Users\tugonawala\PycharmProjects\N-grams\venv\Scripts\python.exe C:/Users/tugonawala/PycharmProjects/N-grams/**main -N 3 -b 0**

Total Unique Words 8070

Total Bigrams 28073

Total trigrams 36774

Total Sentences 2805

:::::::::::::::::::::::::::::::::::::::::::::::::::Test for Sentence 1::::::::::::::::::::::::::::::::::::::::

::Frequency Matrix::

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

::Probability Matrix::

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0.0, 1.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

Probability of Sentence 1 : 0.0

:::::::::::::::::::::::::::::::::::::::::::::::::::Test for Sentence 2::::::::::::::::::::::::::::::::::::::::

::Frequency Matrix::

[1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

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[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

::Probability Matrix::

[0.017543859649122806, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.03225806451612903, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

Probability of Sentence 2 : 0.0

========================================= FINAL RESULT ======================================================

Probability of both Sentences is same.

Process finished with exit code 0

C:\Users\tugonawala\PycharmProjects\N-grams\venv\Scripts\python.exe C:/Users/tugonawala/PycharmProjects/N-grams/**main -N 3 -b 1**

Total Unique Words 8070

Total Bigrams 28073

Total trigrams 36774

Total Sentences 2805

:::::::::::::::::::::::::::::::::::::::::::::::::::Test for Sentence 1::::::::::::::::::::::::::::::::::::::::

::Frequency Matrix::

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

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[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

::Probability Matrix::

[3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05]

[3.562014675500463e-05, 7.124029351000925e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05, 3.562014675500463e-05]

[3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05, 3.5534077180015636e-05]

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Probability of Sentence 1 : 1.482495877596409e-58

:::::::::::::::::::::::::::::::::::::::::::::::::::Test for Sentence 2::::::::::::::::::::::::::::::::::::::::

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Probability of Sentence 2 : 6.65635766033117e-72

========================================= FINAL RESULT ======================================================

Probability of Sentence 1 is more than Sentence 2.

Process finished with exit code 0