for docid in (range(len(file\_names))):

print('docVecLen[docid] [', docid, '] = ', docVecLen[docid])

**Functions:**

def getIDF(word):

return(idf)

def getWeight(word, docid):

return(weight)

def getDocVecLen(file\_names, freq\_word\_Corpus):

for docid in (range(len(file\_names))):

print('<<<<<<<<<<Calculate New docVecLen>>>>>>>>>>')

sumSquares = 0

for word in freq\_word\_Corpus[0][0]:

print(' -----Calculate Update to sumSquares for next Word-----')

print(' word = ', word)

print(' docid = ', docid)

weight = getWeight(word, docid)

print(' weight = ', weight)

weight\_sq = weight\*\*2

print(' weight\_sq = weight\*\*2 = ', weight\_sq)

print(' sumSquares = sumSquares + weight\_sq = ', sumSquares, '+', weight\_sq, '=')

sumSquares += weight\_sq

print(' sumSquares = ', sumSquares)

print()

print(' docVecLen[docid=', docid,'] = math.sqrt(sumSquares) = math.sqrt(', sumSquares, ')')

docVecLen[docid] = math.sqrt(sumSquares)

print(' docVecLen[docid=', docid,'] = ', docVecLen[docid])

return(docVecLen)

**Main:**

docVecLen = defaultdict(float)

docVecLen = getDocVecLen(file\_names, freq\_word\_Corpus)