Tabel 7 Tabel hasil synset teori komutatif dan KBBI.

Kata ke-	Kata	Synset Teori Komutatif dan KBBI	
1	ahad	[[['ahad', 'minggu']], [['ahad', 'esa', 'satu', 'tunggal']]]	
2	setanggi	[['setanggi']]	
3	aborsi	[[['aborsi', 'pengguguran']]]	
4	pekan	[[['pasar', 'pekan']], [['minggu', 'pekan']]]	
5	lebu	[[['abu', 'debu', 'duli', 'lebu']]]	
6	abu	[[['abu', 'abuk', 'debu', 'duli', 'lebu']]]	
7	peci	[[['kopiah', 'peci', 'songkok']]]	
8	koran	[[['harian', 'koran', 'surat kabar']]]	
9	susur	[['susur']]	
10	temu	[[['jumpa', 'sua', 'temu']]]	
11	suar	[[['pijar', 'suar']], ['suar']]	
12	lilin	[[['lilin', 'parafin']]]	
13	sakat	[[['benalu', 'parasit', 'sakat']]]	
14	satwa	[[['binatang', 'hewan', 'satwa']]]	
15	binatang	[[['binatang', 'hewan', 'satwa']]]	
16	fiksi	[[['fiksi', 'khayalan']]]	
17	lamur	[[['lamur', 'rabun']]]	
18	radas	[[['alat', 'radas']]]	
19	presentase	[['persentase']]	
20	bandrek	[[['bandrek', 'serbat']]]	
21	minggu	[[['ahad', 'minggu'], ['minggu', 'pekan']]]	
22	esa	[[['ahad', 'esa', 'satu', 'tunggal']]]	
23	pengguguran	[[['aborsi', 'pengguguran']]]	
24	pasar	[[['pasar', 'pekan']]]	
25	rekan	[[['rekan']]]	
26	kopiah	[[['kopiah', 'peci', 'songkok']]]	
27	songkok	[[['kopiah', 'peci', 'songkok']]]	
28	parafin	[[['lilin', 'parafin']]]	
29	parasi	[[['benalu', 'parasit', 'pasilan'], ['benalu', 'parasit', 'sakat']]]	
30	serbat	[[['bandrek', 'serbat']]]	

Tabel 8 Tabel perbedaan hasil synset program dan manual teori komutatif & KBBI.

Kata ke-	Hasil synset program	Hasil synset teori komutatif & KBBI
4. pekan	[[['pasar', 'pekan', 'rekan']], [['minggu',	[[['pasar', 'pekan']], [['minggu',
	'pekan']]]	'pekan']]]
5. lebu	[[['abu', 'duli', 'lebu']]]	[[['abu', 'debu', 'duli', 'lebu']]]
6. abu	[[['abu', 'abuk', 'debu'], ['abu', 'debu',	[[['abu', 'abuk', 'debu', 'duli', 'lebu']]]
	'duli'], ['abu', 'duli', 'lebu']]]	
10. temu	[[['jumpa', 'temu']]]	[[['jumpa', 'sua', 'temu']]]
16. fiksi	[[['fantasi', 'fiksi']]]	[[['fiksi', 'khayalan']]]
18. radas	[[['perkakas', 'radas']]]	[[['alat', 'radas']]]
24 .pasar	[[['pasar', 'pekan', 'rekan']]]	[[['pasar', 'pekan']]]
25 .rekan	[[['pasar', 'pekan', 'rekan']]]	[[['rekan']]]

Lampiran hasil synset 71 item kata dataset Tesaurus

```
('kata - ', 'abang', 'memiliki synset : ', [[['abang', 'kakak', 'kangmas', 'uda'], ['abang', 'kakang', 'mas'],
['abang', 'kakang', 'uda'], ['abang', 'kangmas', 'mas']]])
('kata - ', 'kakak', 'memiliki synset : ', [[['abang', 'kakak', 'kangmas', 'uda']]])
('kata - ', 'kakang', ' memiliki synset : ', [[['abang', 'kakang', 'mas'], ['abang', 'kakang', 'uda']]])
('kata - ', 'kangmas', ' memiliki synset : ', [[['abang', 'kakak', 'kangmas', 'uda'], ['abang', 'kangmas',
'mas']]])
('kata - ', 'mas', ' memiliki synset : ', [[['abang', 'kakang', 'mas'], ['abang', 'kangmas', 'mas']]])
('kata - ', 'uda', ' memiliki synset : ', [[['abang', 'kakak', 'kangmas', 'uda'], ['abang', 'kakang', 'uda']]])
('kata - ', 'abrasi', 'memiliki synset : ', [[['abrasi', 'erosi', 'pengikisan']]])
('kata - ', 'erosi', 'memiliki synset : ', [[['abrasi', 'erosi', 'pengikisan']]])
('kata - ', 'pengikisan', 'memiliki synset : ', [[['abrasi', 'erosi', 'pengikisan']]])
('kata - ', 'absen', 'memiliki synset : ', [[['absen', 'bolos'], ['absen', 'mangkir']]])
('kata - ', 'bolos', 'memiliki synset: ', [[['absen', 'bolos']]])
('kata - ', 'mangkir', ' memiliki synset : ', [[['absen', 'mangkir'], ['desersi', 'mangkir'], ['lari', 'mangkir'],
['mangkir', 'membolos']]])
('kata - ', 'adidaya', 'memiliki synset : ', [[['adidaya', 'adikuasa']]])
('kata - ', 'adikuasa', 'memiliki synset : ', [[['adidaya', 'adikuasa']]])
('kata - ', 'adipati', 'memiliki synset : ', [['adipati']])
('kata - ', 'bupati', 'memiliki synset : ', [[['bupati', 'tumenggung']]])
('kata - ', 'tumenggung', 'memiliki synset : ', [[['bupati', 'tumenggung']]])
('kata - ', 'adiraja', 'memiliki synset : ', [[['adiraja', 'kaisar', 'maharaja']]])
('kata - ', 'kaisar', 'memiliki synset : ', [[['adiraja', 'kaisar', 'maharaja']]])
```

```
('kata - ', 'maharaja', 'memiliki synset : ', [[['adiraja', 'kaisar', 'maharaja']]])
('kata - ', 'aduk', 'memiliki synset : ', [[['aduk', 'baur', 'campur']]])
('kata - ', 'advokasi', 'memiliki synset: ', [[['advokasi', 'pembelaan']]])
('kata - ', 'pembelaan', 'memiliki synset: ', [[['advokasi', 'pembelaan'], ['apologi', 'pembelaan'],
['defensi', 'pembelaan']]])
('kata - ', 'apologi', 'memiliki synset : ', [[['apologi', 'pembelaan']]])
('kata - ', 'pledoi', 'memiliki synset : ', [['pledoi']])
('kata - ', 'akomodasi', 'memiliki synset : ', [[['akomodasi', 'fasilitas']]])
('kata - ', 'aksara', 'memiliki synset: ', [[['abjad', 'aksara', 'huruf'], ['aksara', 'huruf', 'karakter']]])
('kata - ', 'alwah', 'memiliki synset : ', [['alwah']])
('kata - ', 'ampelas', 'memiliki synset : ', [['ampelas']])
('kata - ', 'amunisi', 'memiliki synset: ', [[['amunisi', 'mesiu'], ['amunisi', 'puder']]])
('kata - ', 'anekdot', 'memiliki synset : ', [[['anekdot', 'cerita']]])
('kata - ', 'angsuran', 'memiliki synset: ', [[['angsuran', 'cicilan', 'kredit']]])
('kata - ', 'cicilan', 'memiliki synset : ', [[['angsuran', 'cicilan', 'kredit']]])
('kata - ', 'kredit', 'memiliki synset: ', [[['angsuran', 'cicilan', 'kredit']], ['kredit']])
('kata - ', 'anteng', 'memiliki synset: ', [[['anteng', 'kalem', 'tenang']]])
('kata - ', 'antup', 'memiliki synset: ', [[['antup', 'sengat']]])
('kata - ', 'sengat', 'memiliki synset : ', [[['antup', 'sengat']]])
('kata - ', 'anyelir', 'memiliki synset: ', [['anyelir']])
('kata - ', 'arai', 'memiliki synset : ', [[['arai', 'manggar', 'mayang']]])
('kata - ', 'manggar', 'memiliki synset: ', [[['arai', 'manggar', 'mayang']]])
('kata - ', 'mayang', 'memiliki synset : ', [[['arai', 'manggar', 'mayang']]])
('kata - ', 'aras', 'memiliki synset : ', [['aras']])
('kata - ', 'arit', 'memiliki synset : ', [[['arit', 'sabit']]])
('kata - ', 'pengarsipan', 'memiliki synset : ', [[['dokumentasi', 'pengarsipan']]])
('kata - ', 'arteri', 'memiliki synset : ', [[['arteri', 'nadi']]])
('kata - ', 'nadi', ' memiliki synset : ', [[['arteri', 'nadi']]])
('kata - ', 'pengasahan', 'memiliki synset : ', [['pengasahan']])
('kata - ', 'asam', 'memiliki synset : ', [[['asam', 'masam']]])
('kata - ', 'asan', 'memiliki synset : ', [[['asa', 'asan']]])
```

```
('kata - ', 'asap', 'memiliki synset : ', [[['asap', 'gas']]])
('kata - ', 'gas', 'memiliki synset : ', [[['angin', 'gas'], ['asap', 'gas']], ['gas']])
('kata - ', 'atak', 'memiliki synset : ', [['atak']])
('kata - ', 'atensi', 'memiliki synset : ', [[['atensi', 'minat', 'perhatian']]])
('kata - ', 'atlas', 'memiliki synset : ', [[['atlas', 'denah', 'peta']]])
('kata - ', 'peta', 'memiliki synset : ', [[['atlas', 'denah', 'peta']]])
('kata - ', 'atlet', 'memiliki synset : ', [[['atlet', 'olahragawan']]])
('kata - ', 'olahragawan', 'memiliki synset: ', [[['atlet', 'olahragawan']]])
('kata - ', 'atom', 'memiliki synset: ', [[['atom', 'molekul', 'partikel']]])
('kata - ', 'zarah', 'memiliki synset : ', [[['partikel', 'zarah']]])
('kata - ', 'molekul', 'memiliki synset: ', [[['anasir', 'elemen', 'molekul', 'partikel', 'unsur'], ['atom',
'molekul', 'partikel']]])
('kata - ', 'atrium', 'memiliki synset : ', [[['atrium', 'serambi']]])
('kata - ', 'auditor', 'memiliki synset : ', [['auditor']])
('kata - ', 'awan', 'memiliki synset : ', [[['awan', 'gegana', 'mega']]])
('kata - ', 'gegana', 'memiliki synset : ', [[['awan', 'gegana', 'mega'], ['gegana', 'udara']], ['gegana']])
('kata - ', 'bom', 'memiliki synset : ', [['bom']])
('kata - ', 'mega', 'memiliki synset : ', [[['awan', 'gegana', 'mega']]])
('kata - ', 'awi', 'memiliki synset: ', [[['aur', 'awi', 'bambu', 'buluh']]])
('kata - ', 'buluh', 'memiliki synset: ', [[['aur', 'awi', 'bambu', 'buluh']]])
('kata - ', 'ayam', 'memiliki synset : ', [[['ayam', 'mandung']]])
('kata - ', 'ayun', 'memiliki synset : ', [[['ayun', 'goyang']]])
('kata - ', 'aba-aba', 'memiliki synset: ', [[['aba-aba', 'arahan', 'perintah'], ['aba-aba', 'instruksi',
'komando', 'perintah'], ['aba-aba', 'isyarat', 'kode', 'tanda'], ['aba-aba', 'isyarat', 'petunjuk', 'tanda'],
['aba-aba', 'komando', 'perintah', 'suruhan']]])
```

Lampiran kodingan aplikasi

synsets_extraction.py

```
import itertools
import json
import pandas as pd
import numpy as np
#merubah menjadi dataframe sesuai dengan panjang / jumlah kata
def synsets to dataframe(word, thesa):
    #input : kata yang akan dicari dan dataset
    #output : matrik seukuran panjang dataset yang indexnya masih belum terisi
    list set = []
    for val in thesa[word]:
       word set = set(val)
        word set.add(word)
       list_set.append(word_set)
    dt = list\_set
    list dataframe = []
    for ls in dt:
        df = pd.DataFrame(data=False, index=ls, columns=ls)
        np.fill diagonal(df.values, True)
        list dataframe.append(df)
    return list dataframe
#fungsi menambah mengisi index pada dataframe
def check validation(word, thesa):
    #input : kata yang dicari dan dataset
    #output : matriks yang indexnya telah terisi dengan nilai true atau false
    lines = thesa[word]
    output = []
    matriks synset = synsets to dataframe(word, thesa)
    for matrik in matriks_synset:
        for line in lines:
            for sense in line:
                if thesa.get(sense) is not None:
                    for inner senses in thesa[sense]:
                        for inner sense in inner senses:
                            if sense in matrik.index and inner sense in
matrik.index:
                                matrik[word][sense] = True
                                matrik[sense][inner sense] = True
        output.append(matrik)
    return output
#fungsi untuk menghasilkan synsets
def evaluate synsets(matrik, word):
    #input : matrik dari dataframe sebelumnya dan kata yang akan dicari
    #output : synsets yang sesuai dengan kata yang dicari
    #print(matrik)
    synsets = []
    for i in range(len(matrik.index), 1, -1):
        for k in itertools.combinations(matrik.index, i):
            sub matrix = matrik.loc[list(k), list(k)]
            #print(k) #calon synset
            #print(sub matrix) #matriks
            is synset = all(sub_matrix.all().values)
            if is synset:
                new synset = sorted(sub matrix.all().index)
                similar = False
                for syn in synsets:
                    if set(new synset) < set(syn):</pre>
                        similar = True
                if not similar and word in new synset:
                    synsets.append(new synset)
    if len(synsets) == 0:
```

```
synsets = [word]
    #print(synsets)
    return sorted(synsets)
#fungsi untuk menjalankan fungsi check validation dan evaluate synsets
def alt gen(word, file):
    #input : kata yang akan dicari dan dataset
    #output : hasil berupa synsets
    thesa = json.load(file)
    matrixs = check_validation(word, thesa)
    #print(matrixs)
    sets list = []
    for matrix in matrixs:
        synset = evaluate_synsets(matrix, word)
        sets list.append(synset)
    return sets list
main.py
from output validasi using matrix import synsets manual
from output validasi kbbi import synsets validasi kbbi
from output lower import synsets lower
from synsets extraction import alt gen
def f1 score(synsets program, synset manual):
    relevant synset = 0
    retrieved_synsets_program = len(synsets_program)
    retrieved synsets manual = len(synset manual)
    if retrieved_synsets_manual != retrieved_synsets_program:
       raise ValueError('A very specific bad thing happened.')
    count = 0
    for program, manual in zip(synsets_program, synset_manual):
        count += 1
        for x , y in zip(program, manual):
           if x == y:
                relevant synset += 1
            else:
                print('kata ke - ', count, 'program ', program, 'manual ', manual)
    print()
    # for program, manual in zip(synsets program, synset manual):
         if program == manual:
             relevant_synset += 1
    #
          else:
             print('synset yang tidak sama ', program)
    # print()
    count\_program = 0
    for matriks in synsets program:
        for synset1 in matriks:
            for syn in synset1:
               count_program += 1
    count manual = 0
    for matriks2 in synset manual:
        for synset2 in matriks2:
            for syn2 in synset2:
               count manual += 1
    print('Jumlah synsets yang sama : ', relevant synset)
    precision = relevant_synset/count_program
    recall = relevant_synset/count_manual
    f1score = 2 * precision*recall/(precision+recall)
    print('precision : ', precision * 100)
                       : ', recall * 100)
: ', flscore * 100)
    print('recall
    print('F1-Score
```

```
if __name__ == '__main__':
    \overline{} synsets final = []
    synsets final.append(alt gen('ahad', open('datatest/data test/1.json')))
    synsets final.append(alt gen('setanggi', open('datatest/data test/2.json')))
    synsets_final.append(alt_gen('aborsi', open('datatest/data_test/3.json')))
    synsets_final.append(alt_gen('pekan', open('datatest/data_test/4.json')))
    synsets_final.append(alt_gen('lebu', open('datatest/data_test/5.json')))
    synsets_final.append(alt_gen('abu', open('datatest/data_test/6.json')))
synsets_final.append(alt_gen('peci', open('datatest/data_test/7.json')))
    synsets_final.append(alt_gen('koran', open('datatest/data_test/8.json')))
    synsets_final.append(alt_gen('susur', open('datatest/data_test/9.json')))
    synsets_final.append(alt_gen('temu', open('datatest/data_test/10.json')))
    synsets_final.append(alt_gen('suar', open('datatest/data_test/11.json')))
synsets_final.append(alt_gen('lilin', open('datatest/data_test/12.json')))
synsets_final.append(alt_gen('sakat', open('datatest/data_test/13.json')))
    synsets final.append(alt gen('satwa', open('datatest/data test/14.json')))
    synsets final.append(alt gen('binatang', open('datatest/data test/15.json')))
    synsets_final.append(alt_gen('fiksi', open('datatest/data_test/16.json')))
    synsets_final.append(alt_gen('lamur', open('datatest/data_test/17.json')))
synsets_final.append(alt_gen('radas', open('datatest/data_test/18.json')))
    synsets_final.append(alt_gen('persentase', open('datatest/data_test/19.json')))
    synsets_final.append(alt_gen('bandrek', open('datatest/data_test/20.json')))
    synsets_final.append(alt_gen('minggu', open('datatest/data_test/21.json')))
    synsets_final.append(alt_gen('esa', open('datatest/data_test/22.json')))
    synsets final.append(alt gen('pengguguran',
open('datatest/data test/23.json')))
    synsets_final.append(alt_gen('pasar', open('datatest/data_test/24.json')))
    synsets_final.append(alt_gen('rekan', open('datatest/data_test/25.json')))
    synsets_final.append(alt_gen('kopiah', open('datatest/data_test/26.json')))
synsets_final.append(alt_gen('songkok', open('datatest/data_test/27.json')))
synsets_final.append(alt_gen('parafin', open('datatest/data_test/28.json')))
    synsets_final.append(alt_gen('parasit', open('datatest/data_test/29.json')))
    synsets final.append(alt gen('serbat', open('datatest/data test/30.json')))
    list kata = ['ahad', 'setanggi', 'aborsi', 'pekan', 'lebu', 'abu', 'peci',
                    'koran', 'susur', 'temu', 'suar', 'lilin', 'sakat', 'satwa',
'binatang',
                   'fiksi', 'lamur', 'radas', 'presentase', 'bandrek', 'minggu',
                    'esa', 'pengguguran', 'pasar', 'rekan', 'kopiah', 'songkok',
'parafin',
                   'parasi', 'serbat']
    print('Synsets hasil program - synset manual(Gold Standard)')
    for x, y in zip(synsets final, synsets validasi kbbi):
         count += 1
         print('Kata ke-',count , list kata[count-1], '= ' ,x , ' - ', y)
    print('====""")
    print('Nilai precision recall dan fl score antara program dengan synset
validasi dengan kbbi')
    print()
    count program = 0
    for matriks in synsets final:
         for synset1 in matriks:
              for syn in synset1:
                  count_program += 1
    count manual = 0
    for matriks2 in synsets validasi kbbi:
         for synset2 in matriks2:
             for syn2 in synset2:
                  count manual += 1
    print('Jumlah synsets program : ', count_program)
    print('Jumlah synsets manual : ', count manual)
    f1_score(synsets_final, synsets_validasi_kbbi)
```

```
print('======')
   print()
   print('=====')
   print('Nilai precision recall dan f1 score antara manual 1 dengan synset
validasi dengan kbbi')
   print()
   count_program = 0
   for matriks in synsets_manual:
       for synset1 in matriks:
           for syn in synset1:
             count_program += 1
   count manual = 0
   for matriks2 in synsets validasi kbbi:
       for synset2 in matriks2:
           for syn2 in synset2:
              count manual += 1
   print('Jumlah synsets program : ', count program)
   print('Jumlah synsets manual : ', count_manual)
   f1 score(synsets_manual, synsets_validasi_kbbi)
   print('=====')
   print('===="")
   print('Nilai lower bound')
   print()
   count\_program = 0
   for matriks in synsets lower:
       for synset1 in matriks:
           for syn in synset1:
              count program += 1
   count manual = 0
   for matriks2 in synsets validasi kbbi:
       for synset2 in matriks2:
           for syn2 in synset2:
               count manual += 1
   print('Jumlah synsets program : ', count_program)
   print('Jumlah synsets manual : ', count manual)
   f1_score(synsets_lower, synsets_validasi_kbbi)
   print('====="")
   #----
   list_kata2 = ['abang', 'kakak', 'kakang', 'kangmas', 'mas', 'uda', 'abrasi',
                 'erosi', 'pengikisan', 'absen', 'bolos', 'mangkir', 'adidaya',
'adikuasa',
                 'adipati', 'bupati', 'tumenggung', 'adiraja', 'kaisar',
'maharaja',
                 'aduk', 'advokasi', 'pembelaan', 'apologi', 'pledoi',
'akomodasi', 'aksara',
                 'alwah', 'ampelas', 'amunisi', 'anekdot', 'angsuran', 'cicilan',
'kredit',
                 'anteng', 'antup', 'sengat', 'anyelir', 'arai', 'manggar',
'mayang', 'aras',
                 'arit', 'pengarsipan', 'arteri', 'nadi', 'pengasahan', 'asam',
'asan',
                 'asap', 'gas', 'atak', 'atensi', 'atlas', 'peta', 'atlet',
'olahragawan',
                 'atom', 'zarah', 'molekul', 'atrium', 'auditor', 'awan',
'gegana', 'bom',
                 'mega', 'awi', 'buluh', 'ayam', 'ayun', 'aba-aba']
   synset dataset = []
   print()
   synset_dataset.append(alt_gen('abang', open('datatest/dataset/1.json')))
```

```
synset_dataset.append(alt_gen('kakak', open('datatest/dataset/2.json')))
synset dataset.append(alt gen('kakang', open('datatest/dataset/3.json')))
synset_dataset.append(alt_gen('kangmas', open('datatest/dataset/4.json')))
synset_dataset.append(alt_gen('mas', open('datatest/dataset/5.json')))
synset_dataset.append(alt_gen('uda', open('datatest/dataset/6.json')))
synset_dataset.append(alt_gen('abrasi', open('datatest/dataset/7.json')))
synset_dataset.append(alt_gen('erosi', open('datatest/dataset/8.json')))
synset_dataset.append(alt_gen('pengikisan', open('datatest/dataset/9.json')))
synset_dataset.append(alt_gen('absen', open('datatest/dataset/10.json')))
synset_dataset.append(alt_gen('bolos', open('datatest/dataset/11.json')))
synset_dataset.append(alt_gen('mangkir', open('datatest/dataset/12.json')))
synset_dataset.append(alt_gen('adidaya', open('datatest/dataset/13.json')))
synset_dataset.append(alt_gen('adikuasa', open('datatest/dataset/14.json')))
synset_dataset.append(alt_gen('adipati', open('datatest/dataset/15.json')))
synset_dataset.append(alt_gen('bupati', open('datatest/dataset/16.json')))
synset dataset.append(alt gen('tumenggung', open('datatest/dataset/17.json')))
synset dataset.append(alt gen('adiraja', open('datatest/dataset/18.json')))
synset_dataset.append(alt_gen('kaisar', open('datatest/dataset/19.json')))
synset dataset.append(alt gen('maharaja', open('datatest/dataset/20.json')))
synset_dataset.append(alt_gen('aduk', open('datatest/dataset/21.json')))
synset_dataset.append(alt_gen('advokasi', open('datatest/dataset/22.json')))
synset dataset.append(alt gen('pembelaan', open('datatest/dataset/23.json')))
synset_dataset.append(alt_gen('apologi', open('datatest/dataset/24.json')))
synset_dataset.append(alt_gen('pledoi', open('datatest/dataset/25.json')))
synset_dataset.append(alt_gen('akomodasi', open('datatest/dataset/26.json')))
synset_dataset.append(alt_gen('aksara', open('datatest/dataset/27.json')))
synset dataset.append(alt gen('alwah', open('datatest/dataset/28.json')))
synset_dataset.append(alt_gen('ampelas', open('datatest/dataset/29.json')))
synset_dataset.append(alt_gen('amunisi', open('datatest/dataset/30.json')))
synset dataset.append(alt gen('anekdot', open('datatest/dataset/31.json')))
synset_dataset.append(alt_gen('angsuran', open('datatest/dataset/32.json')))
synset_dataset.append(alt_gen('cicilan', open('datatest/dataset/33.json')))
synset_dataset.append(alt_gen('kredit', open('datatest/dataset/34.json')))
synset_dataset.append(alt_gen('anteng', open('datatest/dataset/35.json')))
synset dataset.append(alt gen('antup', open('datatest/dataset/36.json')))
synset_dataset.append(alt_gen('sengat', open('datatest/dataset/37.json')))
synset_dataset.append(alt_gen('anyelir', open('datatest/dataset/38.json')))
synset dataset.append(alt gen('arai', open('datatest/dataset/39.json')))
synset_dataset.append(alt_gen('manggar', open('datatest/dataset/40.json')))
synset_dataset.append(alt_gen('mayang', open('datatest/dataset/41.json')))
synset_dataset.append(alt_gen('aras', open('datatest/dataset/42.json')))
synset_dataset.append(alt_gen('arit', open('datatest/dataset/43.json')))
synset_dataset.append(alt_gen('pengarsipan', open('datatest/dataset/44.json')))
synset dataset.append(alt_gen('arteri', open('datatest/dataset/45.json')))
synset_dataset.append(alt_gen('nadi', open('datatest/dataset/46.json')))
synset dataset.append(alt gen('pengasahan', open('datatest/dataset/47.json')))
synset_dataset.append(alt_gen('asam', open('datatest/dataset/48.json')))
synset_dataset.append(alt_gen('asan', open('datatest/dataset/49.json')))
synset_dataset.append(alt_gen('asap', open('datatest/dataset/50.json')))
synset dataset.append(alt gen('gas', open('datatest/dataset/51.json')))
synset_dataset.append(alt_gen('atak', open('datatest/dataset/52.json')))
synset dataset.append(alt gen('atensi', open('datatest/dataset/53.json')))
synset_dataset.append(alt_gen('atlas', open('datatest/dataset/54.json')))
synset_dataset.append(alt_gen('peta', open('datatest/dataset/55.json')))
synset dataset.append(alt gen('atlet', open('datatest/dataset/56.json')))
synset_dataset.append(alt_gen('olahragawan', open('datatest/dataset/57.json')))
synset_dataset.append(alt_gen('atom', open('datatest/dataset/58.json')))
synset_dataset.append(alt_gen('zarah', open('datatest/dataset/59.json')))
synset_dataset.append(alt_gen('molekul', open('datatest/dataset/60.json')))
synset_dataset.append(alt_gen('atrium', open('datatest/dataset/61.json')))
synset dataset.append(alt_gen('auditor', open('datatest/dataset/62a.json')))
synset_dataset.append(alt_gen('awan', open('datatest/dataset/63.json')))
synset dataset.append(alt gen('gegana', open('datatest/dataset/64.json')))
synset_dataset.append(alt_gen('bom', open('datatest/dataset/65.json')))
synset_dataset.append(alt_gen('mega', open('datatest/dataset/66.json')))
synset_dataset.append(alt_gen('awi', open('datatest/dataset/67.json')))
synset dataset.append(alt_gen('buluh', open('datatest/dataset/68.json')))
synset_dataset.append(alt_gen('ayam', open('datatest/dataset/69.json')))
```

```
synset_dataset.append(alt_gen('ayun', open('datatest/dataset/70.json')))
synset_dataset.append(alt_gen('aba-aba', open('datatest/dataset/71.json')))

f = open('datatest/output.txt', 'w+')
countd = 0

for k in synset_dataset:
    output_synset = ('kata - ', list_kata2[countd], ' memiliki synset : ' ,k)
    f.write(str(output_synset) + '\n')
    countd += 1

f.close()
```