Assignment-1

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1 Assignment-1

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Batch - COE20
1.0.1 Ans1:
In [14]: from nltk.book import *
         text5.concordance("collocations")
*** Introductory Examples for the NLTK Book ***
Loading text1, ..., text9 and sent1, ..., sent9
Type the name of the text or sentence to view it.
Type: 'texts()' or 'sents()' to list the materials.
text1: Moby Dick by Herman Melville 1851
text2: Sense and Sensibility by Jane Austen 1811
text3: The Book of Genesis
text4: Inaugural Address Corpus
text5: Chat Corpus
text6: Monty Python and the Holy Grail
text7: Wall Street Journal
text8: Personals Corpus
text9: The Man Who Was Thursday by G . K . Chesterton 1908
No matches
1.0.2 Ans2:
In [7]: my_set = ['This','is','a','set','of','words']
        ' '.join(my_set)
Out[7]: 'This is a set of words'
In [8]: ' '.join(my_set).split()
Out[8]: ['This', 'is', 'a', 'set', 'of', 'words']
```

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1.0.3 Ans3:
In [121]: text9.index('sunset')
Out[121]: 629
1.0.4 Ans4:
In [124]: print(set(sent1))
          print(set(sent2))
          print(set(sent3))
          print(set(sent4))
          print(set(sent5))
          print(set(sent6))
          print(set(sent7))
          print(set(sent8))
{'me', 'Ishmael', 'Call', '.'}
{'Dashwood', 'of', 'in', '.', 'long', 'Sussex', 'family', 'The', 'been', 'had', 'settled'}
{'God', 'earth', 'and', 'beginning', '.', 'In', 'heaven', 'created', 'the'}
{'of', 'and', 'Fellow', 'Representatives', 'House', '-', ':', 'Citizens', 'Senate', 'the'}
{'to', 'JOIN', 'problem', 'have', 'I', 'people', 'a', 'with', 'lol', 'me', 'PMing'}
{'ARTHUR', 'SCENE', ']', 'Whoa', ':', '!', 'clop', 'wind', 'KING', '[', 'there', '1'}
{'nonexecutive', '.', 'old', 'board', ',', 'Vinken', '61', 'join', 'a', 'will', '29', 'the', 'e'
{'lady', 'older', 'attrac', '25', 'MALE', '.', 'encounters', 'for', ',', 'discreet', 'single',
1.0.5 Ans5:
Difference - lets understand this from an example case
In [26]: data = ['Abc', 'ABC', 'abc', 'aBc']
         print(sorted(set([w.lower() for w in data])))
         print((sorted([w.lower() for w in set(data)])))
['abc']
['abc', 'abc', 'abc', 'abc']
In [21]: print(len(sorted(set([w.lower() for w in text1]))))
17231
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In [30]: print(len(sorted([w.lower() for w in set(text1)])))

19317

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1.0.6 Ans6:
In [29]: text2[-2:]
Out[29]: ['THE', 'END']
1.0.7 Ans7:
In [65]: from operator import itemgetter
         all_words = FreqDist(text5)
         four_lettered = {key:value for key, value in sorted(all_words.items(), key=itemgetter
         four_lettered
Out[65]: {'JOIN': 1021,
          'PART': 1016,
          'that': 274,
          'what': 183,
          'here': 181,
          '...': 170,
          'have': 164,
          'like': 156,
          'with': 152,
          'chat': 142,
          'your': 137,
          'good': 130,
          'just': 125,
          'lmao': 107,
          'know': 103,
          'room': 98,
          'from': 92,
          'this': 86,
          'well': 81,
          'back': 78,
          'hiya': 78,
          'they': 77,
          'dont': 75,
          'yeah': 75,
          'want': 71,
          'love': 60,
          'guys': 58,
          'some': 58,
          'been': 57,
          'talk': 56,
          'nice': 52,
          'time': 50,
          'when': 48,
          'haha': 44,
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'make': 44,

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'girl': 43,
'need': 43,
'U122': 42,
'MODE': 41,
'will': 40,
'much': 40,
'then': 40,
'over': 39,
'work': 38,
'were': 38,
'take': 37,
'U121': 36,
'U115': 36,
'song': 36,
'even': 35,
'does': 35,
'seen': 35,
'U156': 35,
'U105': 35,
'more': 34,
'damn': 34,
'only': 33,
'come': 33,
'hell': 29,
'long': 28,
'them': 28,
'name': 27,
'tell': 27,
'away': 26,
'sure': 26,
'look': 26,
'baby': 26,
'call': 26,
'play': 25,
'U110': 25,
'U114': 25,
'NICK': 24,
'down': 24,
'cool': 24,
'sexy': 23,
'many': 23,
'hate': 23,
'said': 23,
'last': 22,
'ever': 22,
'hear': 21,
'life': 21,
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'live': 20,

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'feel': 19,
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'mean': 19,
'give': 19,
'same': 19,
'must': 19,
'stop': 19,
'LMAO': 19,
'!!!!!': 18,
'hugs': 18,
'What': 18,
'find': 18,
'cant': 18,
'left': 17,
'????': 17,
'shit': 17,
'nite': 17,
'busy': 17,
'hair': 17,
'lost': 17,
'U104': 17,
'fine': 16,
'real': 16,
'game': 16,
'fuck': 15,
'sits': 15,
'eyes': 15,
'lets': 15,
'heya': 15,
'kill': 15,
'read': 14,
'shut': 14,
'wait': 14,
'goes': 14,
'keep': 14,
'true': 14,
'pick': 13,
'free': 13,
'else': 13,
'near': 13,
'nope': 13,
'U168': 13,
'hope': 12,
'head': 12,
'male': 12,
'than': 12,
'gets': 12,
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'cold': 12,

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'hehe': 12,
'bout': 12,
'stay': 12,
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'used': 12, 'awww': 12,

'told': 12,

'This': 12,

'U102': 12,

'doin': 11,

'kids': 11,

'perv': 11,

'wont': 11,

'face': 11,

'home': 11,

'year': 11,

'babe': 11,

'into': 11, 'yall': 11,

'...': 11,

'U119': 11,

'U107': 11,

'hard': 10,

'show': 10,

'U101': 10,

'once': 10,

'Well': 10,

'help': 10,

'mind': 10,

'Yeah': 10,

'week': 10,

'Liam': 10,

'U132': 10,

'pics': 9,

'such': 9,

'type': 9,

'best': 9,

'neck': 9,

'dang': 9,

'dead': 9,

'runs': 9,

'aint': 9,

'rock': 9,

'days': 9,

'mine': 9,

'book': 9,

'crap': 9,

'soon': 9,

'care': 9,

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'full': 9,
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- 'kiss': 9,
- 'hour': 9,
- 'nick': 9,
- 'sick': 9,
- '; ..': 9,
- 'hmmm': 9,
- 'U139': 8,
- 'word': 8,
- 'heyy': 8,
- 'case': 8,
- 'wana': 8,
- 'hows': 8,
- 'went': 8,
- 'lady': 8,
- 'blue': 8,
- 'says': 8,
- 'suck': 8,
- 'made': 8,
- 'wife': 8,
- 'sang': 8,
- 'U144': 8,
- 'fast': 7,
- 'rule': 7,
- 'dude': 7,
- 'okay': 7,
- 'alot': 7,
- 'hand': 7,
- 'took': 7,
- 'wear': 7,
- 'Hiya': 7,
- 'kick': 7,
- 'ahhh': 7,
- 'dear': 7,
- 'That': 7,
- 'U108': 7,
- 'U169': 7,
- 'U129': 6,
- 'U116': 6,
- 'most': 6,
- 'thru': 6,
- 'U165': 6,
- 'list': 6,
- 'seem': 6,
- 'sing': 6,
- 'next': 6, 'done': 6,
- 'ride': 6,

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'comp': 6,
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- 'main': 6,
- '))))': 6,
- 'goin': 6,
- 'U520': 6,
- 'pink': 6,
- 'poor': 6,
- poor . o
- 'gone': 6,
- 'oops': 6,
- 'knew': 6,
- '<---': 6,
- 'ball': 6,
- 'send': 6,
- 'Song': 6,
- 'blah': 6,
- 'They': 6,
- 'part': 6,
- 'U103': 6,
- 'U120': 6,
- 'Last': 6,
- 'whos': 6,
- 'food': 6,
- 'U142': 6,
- 'sock': 6,
- 'U197': 6,
- 'legs': 5,
- 'fire': 5,
- 'warm': 5,
- 'late': 5,
- 'hang': 5,
- 'miss': 5,
- 'boys': 5,
- 'land': 5,
- 'nose': 5,
- 'lick': 5,
- 'caps': 5,
- 'wish': 5,
- 'U128': 5,
- 'came': 5,
- 'cali': 5,
- 'roll': 5,
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- 'easy': 5,
- 'lose': 5,
- 'When': 5,
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- 'fall': 5,
- 'boss': 5,
- 'beer': 5,
- 'ohhh': 5,
- '####': 5**,**
- 'wall': 5,
- 'Have': 5,
- 'meet': 5,
- 'till': 5,
- 'feet': 5,
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- 'holy': 4,
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- 'Like': 4, 'each': 4,
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- 'ouch': 4,
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- 'lame': 4,
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- 'U154': 4,
- 'U988': 4,
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- 'U146': 4,
- 'U989': 4,
- 'U117': 4,
- 'U819': 4,
- 'U820': 4,
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- 'itch': 3,
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- 'U136': 3,
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- 'isnt': 3,
- 'U141': 3,
- 'Only': 3, 'U148': 3,
- 'Your': 3,
- 'deal': 3,
- 'wash': 3,
- 'U109': 3,
- 'piff': 3,
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- 'orgy': 3,
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- 'bend': 3,

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- 'roof': 3,
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- 'hola': 3,
- 'butt': 3,
- 'imma': 3,
- 'town': 3,
- 'hawt': 3,
- '2006': 3,
- 'Elev': 3,
- 'Wind': 3,
- 'AKDT': 3,
- 'lead': 3,
- 'DING': 3,
- 'note': 3,
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- 'gawd': 3,
- 'half': 3,
- 'mary': 3,
- 'ello': 3,
- 'hick': 3,
- 'wine': 3,
- 'hiii': 3,
- 'bare': 3,
- 'vote': 3,
- 'Same': 3,
- 'wack': 3,
- 'snow': 3,
- 'hurt': 3,
- 'move': 3,
- 'road': 3,
- 'walk': 3,
- 'yawn': 3,
- 'hail': 3,
- 'nana': 3,
- 'U106': 3,
- 'hump': 3,
- 'elle': 3,
- 'yada': 3,
- 'tune': 3,
- 'hank': 3,
- 'slow': 3,
- 'rubs': 3,
- 'skin': 3,

- 'died': 3,
- 'U145': 3,
- 'swim': 3,
- 'U163': 3,
- 'army': 3,
- 'THAT': 3,
- 'wazz': 3,
- 'toes': 3,
- 'U153': 3,
- 'golf': 2,
- 'drew': 2,
- 'cast': 2,
- 'Days': 2,
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- 'opps': 2,
- 'U138': 2,
- 'plan': 2,
- 'Just': 2,
- 'deaf': 2,
- 'deep': 2,
- 'phil': 2,
- 'hmph': 2,
- 'U155': 2,
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- 'mike': 2,
- 'whoa': 2,
- 'dumb': 2,
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- 'Come': 2,
- '0.k.': 2,
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- 'bear': 2,
- 'foot': 2,
- 'uses': 2,
- 'DONT': 2,
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- 'whud': 2,
- 'hott': 2,
- 'Down': 2,
- 'Lets': 2,
- 'club': 2,

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- 'born': 2,
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- 'area': 2,
- '?!?!': 2,
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- 'U112': 2,
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- 'zone': 2,
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- 'spin': 2,
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- 'n9ne': 2,
- 'Ahhh': 2,
- '??!!': 2,
- 'U111': 2,
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- 'yeas': 2,
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- 0100 . 2
- 'tisk': 2,
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- 'Fade': 1,
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- 'bong': 1,
- 'ogan': 1,
- 'cams': 1,
- 'gooo': 1,
- 'yeee': 1,
- 'ahah': 1,
- 'jeep': 1,
- Joop . _ ,
- 'Deep': 1,
- 'Show': 1,
- 'Turn': 1,
- 'Hand': 1,
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- 'VBox': 1,
- 'ELSE': 1, 'serg': 1,

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'1200': 1,
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'Rofl': 1,
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'lust': 1,
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'98.6': 1,
"it's": 1,
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'Bone': 1,
'Hero': 1,
'Came': 1,
'.op.': 1,
'Hott': 1,
'Joey': 1,
'Jane': 1,
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'wore': 1,
'QUIT': 1,
'pasa': 1,
'barn': 1,
'Kick': 1,
'feat': 1,
'Back': 1,
'dork': 1,
'laid': 1,
'Home': 1,
'herd': 1,
'Born': 1,
'Away': 1,
'Tide': 1,
'jush': 1,
'Cute': 1,
'GrlZ': 1,
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'SOME': 1,
'Lion': 1,
'brat': 1,
':o *': 1,
'MUAH': 1,
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'tthe': 1,
'Even': 1,
'herE': 1,
'Hail': 1,
'halo': 1,
'pork': 1,
'1cos': 1,
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'mark': 1,
'dotn': 1,
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'pmsl': 1,
'gift': 1,
'outs': 1,
'Paul': 1,
'outa': 1,
'York': 1,
'Care': 1,
'Chat': 1,
'fear': 1,
'dies': 1,
'givs': 1,
'bust': 1,
'xmas': 1,
'enuf': 1,
'LoVe': 1,
'eeww': 1,
'dick': 1,
'fair': 1,
'lyin': 1,
'lois': 1,
'cuss': 1,
'LATE': 1,
'THEY': 1,
'GOOD': 1,
'rape': 1,
'geez': 1,
'tart': 1,
'hgey': 1,
'caan': 1,
'lol.': 1,
```

'Elle': 1,

```
'nude': 1,
'allo': 1,
'yesh': 1,
'wind': 1,
'Reub': 1,
'!???': 1,
'heat': 1,
'kmph': 1,
'pope': 1,
'yess': 1,
'!...': 1,
'duet': 1,
'wuts': 1,
'west': 1,
'quiz': 1,
'scar': 1,
'Girl': 1,
'pair': 1,
'Rang': 1,
'rang': 1,
'bell': 1,
'dawg': 1,
'febe': 1,
'Prof': 1,
'Kewl': 1,
'jude': 1,
'Yoko': 1,
'seee': 1,
'whou': 1,
'idnt': 1,
'perk': 1,
'http': 1,
'2DAY': 1,
'yell': 1,
'mang': 1,
'SSRI': 1,
'cure': 1,
'wean': 1,
'post': 1,
'anti': 1,
'noth': 1,
'tall': 1,
'pray': 1,
'weed': 1,
'icky': 1,
'Rick': 1,
'spit': 1,
'lube': 1,
```

```
'mami': 1,
'east': 1,
'18ST': 1,
'seat': 1,
'cock': 1,
'SExy': 1,
'otay': 1,
'firs': 1,
'site': 1,
'U113': 1,
'dump': 1,
'toop': 1,
'four': 1,
'U118': 1,
'sets': 1,
'asss': 1,
'paid': 1,
'Iowa': 1,
'Teck': 1,
'"...': 1,
'jeff': 1,
'crib': 1,
'drug': 1,
'cook': 1,
'9:10': 1,
'ladz': 1,
'aime': 1,
'hong': 1,
'kong': 1,
'Oops': 1,
'tits': 1,
'gret': 1,
'guns': 1,
'inch': 1,
'sean': 1,
'howl': 1,
'Take': 1,
'z-ro': 1,
'U137': 1,
'Haha': 1,
'1985': 1,
'slam': 1,
'pine': 1,
'puke': 1,
'waaa': 1,
'urls': 1,
'star': 1,
'Save': 1,
```

```
'teck': 1,
          'Room': 1,
          'sori': 1,
          'Long': 1,
          'poem': 1,
          ...}
1.0.8 Ans8:
In [83]: all_words = set(text6)
         for word in all_words:
             if word == word.upper():
                 print(word)
GUEST
. '
PARTY
CROWD
15
BRIDE
VILLAGER
SOLDIER
17
12
ARMY
ROBIN
MIDGET
HISTORIAN
SENTRY
10
24
OF
١,
CARTOON
ENCHANTER
BEDEVERE
FRENCH
11
MONKS
MASTER
[...
]
NI
CRONE
VOICE
```

HEADS

MAN

!)

5

(

!]

OLD

DINGO

CRASH

PRISONER

?!

VILLAGERS

GIRLS

PRINCESS

GALAHAD

RIGHT

CHARACTERS

CAMERAMAN

Ι

KNIGHT

. . .

С

20

FATHER

KNIGHTS

LAUNCELOT

Α

WINSTON

22

BLACK

' !

OTHER

SUN

...]

23

1

: ALL

14 MIDDLE

MAYNARD

CHARACTER

BROTHER

GOD

ANIMATOR

PRINCE 18 ROGER .) WITCH DENNIS GUARD SECOND PIGLET U --PERSON WOMAN GUESTS CUSTOMER SIR ! CRAPPER CART . . CONCORDE 6 0 ? 3 HERBERT 21 [AMAZING PATSY Y MIT INSPECTOR 9 NARRATOR GUARDS '? LUCKY DEAD !, STUNNER ZOOT ARTHUR ${\tt RANDOM}$ ١...

```
HEAD
١.
THE
#
13
7
16
LOVELY
BRIDGEKEEPER
OFFICER
SCENE
MINSTREL
LEFT
SHRUBBER
DIRECTOR
...?
19
GREEN
BORS
KING
--...
8
WIFE
1.0.9 Ans9:
In [84]: all_words = set(text6)
9(a)
In [93]: new_set = {w for w in all_words if w.endswith('ize')}
         new_set
Out[93]: set()
9(b)
In [96]: new_set = {w for w in all_words if 'z' in w}
         new_set
Out[96]: {'Fetchez', 'amazes', 'frozen', 'zhiv', 'zone', 'zoo', 'zoop', 'zoosh'}
In [98]: new_set = {w for w in all_words if 'pt' in w}
         new_set
```

```
Out[98]: {'Chapter',
          'Thpppppt',
          'Thppppt',
          'Thpppt',
          'Thppt',
          'aptly',
          'empty',
          'excepting',
          'ptoo',
          'temptation',
          'temptress'}
1.0.10 Ans10:
In [99]: sent = ['she', 'sells', 'sea', 'shells', 'by', 'the', 'sea', 'shore']
10(a)
In [103]: word_set = set(sent)
          for w in word_set:
              if w.startswith('sh'):
                  print(w)
shells
shore
she
In [104]: for w in word_set:
              if len(w)>4:
                  print(w)
shells
shore
sells
1.0.11 Ans11:
In [107]: # This code gives the total letter in the dataset
          sum([len(w) for w in text1])
Out[107]: 999044
In [119]: # Average word length of a text
          sum([len(w) for w in text1])/len(text1)
Out[119]: 3.830411128023649
```

```
1.0.12 Ans12:
```