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In [12]: import pandas as pd

In [6]: import numpy as np

In [7]: with open("conv.txt") as f:
        stored_conv = f.read()

In [8]: # splitting the list contents with the parameter \n to make unique list elements(creating a list order)
        data = list(stored_conv.split('\n'))

In [9]: data

Out[9]: ['WILL: Iâ€™ve never seen wildlings do a thing like this. Iâ€™ve never seen a thing like this, not ever in my life.',
        'WAYMAR ROYCE: How close did you get?',
        'WILL: Close as any man would.',
        'GARED: We should head back to the wall.',
        'ROYCE: Do the dead frighten you?',
        'GARED: Our orders were to track the wildlings. We tracked them. They wonâ€™t trouble us no more.',
        'ROYCE: You donâ€™t think heâ€™ll ask us how they died? Get back on your horse.',
        'WILL: Whatever did it to them could do it to us. They even killed the children.',
        'ROYCE: Itâ€™s a good thing weâ€™re not children. You want to run away south, run away. Of course, they will behead you as a deserter â€¦ If I donâ€™t catch you first. Get back on your horse. I wonâ€™t say it again.',
        'ROYCE: Your dead men seem to have moved camp.',
        'WILL: They were here.',
        'GARED: See where they went.',
        'ROYCE: What is it?',
        'JON: Go on. Fatherâ€™s watching.',
        'JON: And your mother.',
        'SEPTA MORDANE: Fine work, as always. Well done.',
        'SANSA: Thank you.',
        'SEPTA MORDANE: I love the detail that youâ€™ve managed to get in this corners.',
        'NED: And which one of you was a marksman at ten? Keep practicing, Bran. Go on.',
        'JON: Donâ€™t think too much, Bran.',
        'ROBB: Relax your bow arm.',
        'CASSEL: Lord Stark. My lady. A guardsman just rode in from the hills. Theyâ€™ve captured a deserter from the Nightâ€™s Watch.',
        'NED: Get the lads to saddle their horses.',
        'CATELYN: Do you have to?',
        'NED: He swore an oath, Cat.',
        'CASSEL: The law is law, my lady.',
        'NED: Tell Bran heâ€™s coming, too.',
        'CATELYN: Ned. Ten is too young to see such things.',
        'NED: He wonâ€™t be a boy forever. And winter is coming.',
        'ROBB: Lad, go run back and get the rest.',
        'NED: King of the Andals and the First Men â€¦',
        'JON: Father will know if you do.',
        'NED: Lord of the Seven Kingdoms and protector of the realm, I, Eddard of the House Stark, Lord of Winterfell and Warden of the North, sentence you to die.',
        'JON: You did well.',
        'NED: You understand why I did it?',
        'BRAN: Jon said he was a deserter.',
        'NED: But do you understand why I had to kill him?',
        'BRAN: Our way is the old way?',
        'NED: The man who passes the sentence should swing the sword.',
        'BRAN: Is it true he saw the White Walkers?',
        'NED: The White Walkers have been gone for thousands of years.',
        'BRAN: So he was lying?',
        'NED: A madman sees what he sees.',
        'JON: What is it?',
        'THEON: Mountain lion?',
        'NED: There are no mountain lions in these woods.',
        'THEON: Itâ€™s a freak.',
        'NED: Itâ€™s a direwolf.',
        'NED: Tough old beast.',
        'ROBB: There are no direwolves south of the Wall.',
        'JON: Now there are five.',
        'JON: You want to hold it?',
        'BRAN: Where will they go? Their motherâ€™s dead.',
        'CASSEL: They donâ€™t belong down here.',
        'NED: Better a quick death. They wonâ€™t last without their mother.',
        'THEON: Right. Give it here.',
        'BRAN: NO!',
        'ROBB: Put away your blade.',
        'THEON: I take orders from your father, not you.',
        'BRAN: Please, father!',
        'NED: Iâ€™m sorry, Bran.',
        'JON: Lord Stark? There are five pups. One for each of the Stark children. The direwolf is the sigil of your House. They were meant to have them.',
        'NED: You will train them yourselves. You will feed them yourselves. And if they die, you will bury them yourselves.',
        'BRAN: What about you?',
        'JON: Iâ€™m not a Stark. Get on.',
        'ROBB: What is it?',
        'CERSEI: What if Jon Arryn told someone?',
        'JAIME: But who would he tell?',
        'CERSEI: My husband.',
        'JAIME: If he told the king, both our heads would be skewered on the city gates by now. Whatever Jon Arryn knew or didnâ€™t know, it died with him. And Robert will choose a new Hand of the king, someone to do his job while heâ€™s off fucking boars and hunting whores. Or is it the other way around? And life will go on.',
        'CERSEI: You should be the Hand of the king.',
        'JAIME: Thatâ€™s an honor I can do without. Their days are too long, their lives are too short.',
        'CATELYN: All these years and I still feel like an outsider here.',
        'NED: You have five northern children. Youâ€™re not an outsider.',
        'CATELYN: I wonder if the old gods agree.',
        'NED: Itâ€™s your gods with all the rules.',
        'CATELYN: I am so sorry, my love.',
        'NED: Tell me.',
        'ROBB: I hear the prince is a right royal prick.',
        'THEON: Think of all those southern girls he gets to stab with his right royal prick.',
        'ROBB: Go on, Tommy, shave him good. Heâ€™s never met a girl he likes better than his own hair.',
        'CATELYN: Gods, but they grow fast.',
        'BRAN: I saw the king! Heâ€™s got hundreds of people!',
        'CATELYN: How many times have I told you No climbing!',
        'BRAN: But heâ€™s coming right now! Down our road!',
        'CATELYN: I want you to promise me. No more climbing.',
        'NED: Your Grace.',
        'ROBERT: Youâ€™ve got fat.',
        'ROBERT: Cat!',
        'CATELYN: Your Grace.',
        'ROBERT: Nine years. Why havenâ€™t I seen you? Where the hell have you been?',
        'NED: Guarding the North for you, Your Grace. Winterfell is yours.',
        'ARYA: Whereâ€™s the Imp?',
        'SANSA: Will you shut up?',
        'ROBERT: Who have we here? You must be Robb.',
        'ARYA: Arya.',
        'ROBERT: Ooh. Show us your muscles. Youâ€™ll be a soldier.',
        'ARYA: Thatâ€™s Jaime Lannister. The queenâ€™s twin brother.',
        'SANSA: Would you please shut up.',
        'NED: My queen.',
        'CATELYN: My queen.',
        'ROBERT: Take me to your crypt. I want to pay my respects.',
        'CERSEI: Weâ€™ve been riding for a month, my love. Surely the dead can wait.',
        'ROBERT: Ned.',
        'ARYA: Whereâ€™s the Imp?',
        'CERSEI: Where is our brother? Go find the little beast.',
        'NED: Tell me about Jon Arryn.',
        'ROBERT: One minute he was fine, and then â€¦ Burned right through him, whatever it was. I loved that man.',
        'NED: We both did.',
        'ROBERT: He never had to teach you much, but me â€¦ You remember me at 16? All I wanted to do was crack skulls and fuck girls. He showed me what was what.',
        'NED: Aye.',
        '']
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In [10]: # 1) Find out the number of unique dialogue speakers in the sample conversation
a = []
fr = open('conv.txt','r').readlines()
# print each line text
for line in fr :
    unique_characters = line.split(' ')
    if unique_characters[0] != '\n':
        if unique_characters[0].endswith(':') == 1:
            a.append(unique_characters[0].replace(":", ""))
        else:
            c = (unique_characters[0] + " " + unique_characters[1])
            a.append(c.replace(":", ""))
b=set(a)

print("No Of Unique Characters Involved In The Conversation are :- ",len(b),"\\nThose are :- ")
b

No Of Unique Characters Involved In The Conversation are :- 17
Those are :-
{'ARYA',
 'BRAN',
 'CASSEL',
 'CATELYN',
 'CERSEI',
 'GARED',
 'JAIME',
 'JON',
 'NED',
 'ROBB',
 'ROBERT',
 'ROYCE',
 'SANSA',
 'SEPTA MORDANE',
 'THEON',
 'WAYMAR ROYCE',
 'WILL'}
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In [11]: # 2)Create a new text file for each of the characters with their name and store the unique words said by them in their respective file. Store one word in one line.

c = []
unique_words = []
for k in b:
    print('\\VE',k,'-----')
    c = []
    name = k+".txt"
    my_file = open('conv.txt'+name,'w+')
    for line in fr :
        if line.startswith(k+":"):
            lines = line.replace(k+":"," " )
            lines = line.replace("\\E"," ")
            words = lines.split(' ')
            for word in words:
                c.append(word)
        else:
            continue
    my_word = set(c)
    print(my_word)
    for i in my_word:
        if i == k+":":
            continue
        else:
            j = i+"\\E"
            my_file.writelines(j)
    #Storing The Unique Words Said By The Characters To Their Respective Files
print("CERSEI\\nAll Character's File is Created And unique Words used by them Are Stored In Files Successfully.\\E")

VE CERSEI
{'Arryn', 'CERSEI:', 'little', 'be', 'Jon', 'dead', 'someone?\\n', 'brother?', 'what', 'where', 'should', 'riding', 'wait.\\n', 'for', 'month', 'a', 'husband.\\n', 'our', 'weâ€™ve', 'love.', 'been', 'my', 'Surely', 'Go', 'Hand', 'is', 'You', 'of', 'king.\\n', 'told', 'beast.\\n', 'can', 'the', 'My', 'find', 'if'}
VE ROBB
{'your', 'shave', 'run', 'he', 'Tommy', 'it?\\n', 'his', 'good', 'arm.\\n', 'blade', 'royal', 'I', 'Heâ€™s', 'are', 'get', 'than', 'what', 'Wall.\\n', 'on', 'ROBB:', 'prince', 'me', 't', 'direwolves', 'south', 'a', 'the', 'Iâ€™s', 'likes', 'go', 'better', 'no', 'Put', 'him', 'hear.\\n', 'right', 'Go', 'rest.\\n', 'never', 'is', 'of', 'There', 'own', 'Relax', 'hair.\\n', 'lad', 'him', 'beast.\\n', 'the', 'prick.\\n', 'and', 'away', 'girl'}
VE WAYMAR ROYCE
{'get?\\n', 'close', 'you', 'WAYMAR', 'ROYCE:', 'did'}
VE WILL
{'killed', 'wildlings', 'could', 'did', 'not', 'any', 'as', 'ever', 'like', 'life.\\n', 'whatever', 'this.', 'They', 'a', 'man', 'were', 'my', 'in', 'even', 'Iâ€™ve', 'never', 'this', 'here.\\n', 'it', 'to', 'the', 'would.\\n', 'thing', 'close', 'WILL:', 'seen', 'children.\\n', 'us.', 'them', 'do'}
VE GARED
{'wildlings', 'us', 'head', 'GARED:', 'went.\\n', 'we', 'back', 'more.\\n', 'tracked', 'where', 'should', 'track', 'trouble', 'They', 'were', 'orders', 'them.', 'no', 'See', 'wonâ€™t', 'to', 'our', 'the', 'they', 'wall.\\n'}
VE JAIME
{'Arryn', 'died', 'on.\\n', 'with', 'he', 'be', 'Jon', 'would', 'his', 'knew', 'death', 'when', 'their.\\n', 'you', 'should', 'walkers', 'swore', 'Andals', 'children.', 'train', 'Keep', 'Grac', 's', 'sorry', 'And', 'what', 'me.\\n', 'King', 'But', 'I', 'is', 'outsider.\\n', 'you', 'There', 'swing', 'saddle', 'boy', 'both', 'understand', 'Tough', 'â€™', 'five', 'heâ€™s', 's', 'Arryn.\\n', 'Aye.\\n', 'and', 'do', 'sees', 'White', 'with', 'Stark', 'sword.\\n', 'me', 'Horses.\\n', 'We', 'die', 'bury', 'ten?', 'mountain', 'Your', 'Kingdoms', 'yourself', 's', 'all', 'Better', 'gods', 'why', 'NED:', 'coming.\\n', 'which', 'realm', 'Bran', 'N', 'wonâ€™t', 'practicing', 'warden', 'passes', 'about', 'thousands', 'My', 'yours.\\n', 'I', 'em', 'them', 'Eddard', 'on.\\n', 'gone', 'he', 'he', 'it?\\n', 'one', 'not', 'an', 'quick', 'They', 'if', 'last', 'North', 'been', 'did.\\n', 'marksman', 'old', 'Bran', 'woods.\\n', 'beast.\\n', 'at', 'lions', 'northern', 'have', 'yourselves.\\n', 'lads', 'madman', 'they', 'winter', 'die.\\n', 'Grace.\\n', 'Cat.\\n', 'First', 'had', 'kill', 'forever.', 'are', 'dire', 'wolf.\\n', 'too.\\n', 'Tell', 'The', 'him?\\n', 'their', 'for', 'a', 'coming.', 'Get', 'man', 'Itâ€™s', 'rules.\\n', 'Seven', 'Men', 'will', 'oath', 'no', 'without', 'Go', 'A', 'Winte', 're', 'you', 'of', 'queen.\\n', 'to', 'House', 'who', 'the', 'Guarding', 'Lord', 'protector', 'feed', 'Bran.\\n', 'youâ€™re', 'these', 'years.\\n'}
VE SEPTA MORDANE
{'that\\n', 'CORNEAN.\\n', 'I', 'get', 'this', 'as', 'SEPTA', 'that', 'done.\\n', 'in', 'managed', 'work', 'detail', 'to', 'youâ€™ve', 'the', 'always.', 'love', 'Fine', 'MORDANE:'}
VE ROBERT
{'your', 'was', 'be', 'much', 'I', 'crypt.', 'you', 'him', 'must', 'Show', 'Burned', 'All', 'girls.', 'what', 'loved', 'Take', 'it', 'seen', 'Cat\\n', 'and', 'fuck', 'do', 'hel', 'I', 'pay', 'minute', 'want', 'who', 'me', 'you?', 'then', 'but', 'here?', 'where', 'remember', 'muscles.', 'what.\\n', 'my', 'right', 'years.', 'ROBERT:', 'skulls', 'teach', 'wante', 'd', '16?', 'soldier.\\n', 'us', 'he', 'He', 'Youâ€™ll', 'that', 'fat.\\n', 'never', 'been\\n', 'havenâ€™t', 'at', 'have', 'got', 'Nine', 'why', 'had', 'ROBERT:', 'skulls', 'teach', 'wante', 'd', 'fine', 'a', 'One', 'Ned.\\n', 'Youâ€™ve', 'whatever', 'through', 'You', 'to', 'the', 'â€™', 'respects.\\n', 'we', 'showed', 'man.\\n'}
VE ROYCE
{'your', 'us', 'want', 'good', 'seem', 'dead', 'back', 'frighten', 'first.', 'it?\\n', 'horse.\\n', 'again.\\n', 'I', 'not', 'Your', 'of', 'weâ€™re', 'you', 'what', 'the', 'as', 'how', 'children.', 'run', 'a', 'Itâ€™s', 'Get', 'I', 'will', 'do', 'died?', 'deserter', 'moved', 'donâ€™t', 'wonâ€™t', 'is', 'You', 'catch', 'course', 'it', 'to', 'the', 'heâ€™ll', 'on', 'â€™', 'say', 'men', 'thing', 'have', 'away.', 'camp.\\n', 'ROYCE:', 'they', 'south', 'you?\\n', 'behead', 'ask', 'away'}
VE THEON
{'your', 'with', 'he', 'THEON:', 'his', 'Give', 'lion?\\n', 'pups', 'JON:', 'fatherâ€™s', 'were', 'not', 'are', 'mother.\\n', 'think', 'you', 'what', 'direwolf', 'House.', 'You', 'hing.\\n', 'Stark?', 'The', 'sigil', 'for', 'They', 'children.', 'each', 'One', 'a', 'a', 'Get', 'die', 'will', 'too', 'And', 'them.\\n', 'go', 'well.\\n', 'Father', 'Now', 'is', 'you', 'of', 'There', 'Donâ€™t', 'Stark', 'to', 'the', 'know', 'hold', 'there', 'Lord', 'five', 'have', 'Bran.\\n', 'do.\\n', 'Iâ€™m', 'on', 'if', 'meant'}
VE ARYA
{'thatâ€™s', 'ARYA:', 'the', 'Arya.\\n', 'The', 'Jaime', 'twin', 'queenâ€™s', 'Imp?\\n', 'Lannister.', 'brother.\\n', 'whereâ€™s'}
VE E
All Character's File is Created And unique Words used by them Are Stored In Files Successfully.\\E
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In [ ]: 
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In [ ]: 
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