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In [2]: #opens and reads the file
with open('conv.txt', 'r', encoding='utf-8') as f:
    complete_text=f.read()
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In [3]: #checks content of the file
complete_text
C E A S T A R K: See you, Jon.
ROBB: What is it?
CERSEI: What is it?
ARRYN: Tell me.
CERSEI: I: 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 didn't know, it died with him. And Robert will choose a new Hand of the king, someone to do his job while he'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: That'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 when I come here.
NED: You have five northern children. You're not an outsider.
CATELYN: I wonder if the old gods agree.
NED: It'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. He's never met a girl he likes better than his own hair.
CATELYN: Gods, but they grow fast.
BRAN: I saw the king! He's got hundreds of people!
CATELYN: How many times have I told you No climbing!
BRAN: But he's coming right now! Down our road!
CATELYN: I want you to promise me. No more climbing.
NED: Your Grace.
ROBERT: You've got fat.
ROBERT: Cat!
CATELYN: Your Grace.
ROBERT: Nine years. Why haven't I seen you? Where the hell have you been?
NED: Guarding the North for you, Your Grace. Winterfell is yours.
ARYA: Where'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. You'll be a soldier.
ARYA: That's Jaime Lannister. The queen'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: We've been riding for a month, my love. Surely the dead can wait.
ROBERT: Ned.
ARYA: Where'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 ... 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 ... 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 [12]: #splits the script in parts of each dialogue
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x=complete_text.split("\n\n")
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In [11]: #splits dialogues in parts of speaker and its dialogue
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for i in x:
    lines=i.split(":")
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In [6]: #extract character name from the dialogue and store in a character set
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character={' '}
for i in x:
    line=i.split(":")
    character.add(line[0])
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In [7]: #converting the "character" set to "unique_char" tuple for easy index access
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unique_char=[]
for i in character:
    unique_char.append(i)
#counting elements of the tuple
print("There are total", (len(unique_char)-1) , "characters in the script.")
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There are total 17 characters in the script.

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In [10]: #For my own practice
#Creates a new file which contains names of all the characters
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file_new= open('characters.txt', 'w+')
for i in unique_char[1:]:
    file_new.write(i)
    file_new.write("\n")
```

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In [9]: #This script uses the str.partition() method to split each line of the file into the speaker, a colon, and the dialogue.  
#then it uses the str.strip() method to remove any whitespace from the speaker's name and the str.split() method to split the dia  
#It creates a dictionary called "speakers" where the keys are the speakers and the values are sets of unique words spoken by that  
#Then, for each speaker, it creates a new text file with the name of the speaker and writes the words in the corresponding set to  
  
speakers = {}  
  
with open("conv.txt", "r") as file:  
    lines = file.readlines()  
    for line in lines:  
        speaker, _, dialogue = line.partition(':')  
        speaker = speaker.strip()  
        if speaker not in speakers:  
            speakers[speaker] = set()  
        words = dialogue.strip().split()  
        for word in words:  
            speakers[speaker].add(word)  
  
for speaker in speakers:  
    with open(f"{speaker}.txt", "w") as file:  
        for word in speakers[speaker]:  
            file.write(f"{word}\n")
```

In []:

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