1. Run the program with the name of the text file to be analyzed as a command line argument
   1. Python3 HW1code\_Brady\_Messer.py inputText.txt
   2. **Program behavior is as follows:**
      1. **The string “xxxx” will be counted as 4 occurrences of x, 3 bigrams, and 2 trigrams**
2. Output for Alice in wonderland chapter 4:

**Overall character occurences:**

**e: 1265**

**t: 1054**

**a: 878**

**o: 833**

**h: 733**

**n: 705**

**i: 702**

**s: 607**

**r: 537**

**l: 486**

**d: 474**

**u: 303**

**g: 262**

**w: 261**

**m: 215**

**f: 212**

**c: 207**

**b: 183**

**y: 177**

**p: 161**

**k: 100**

**v: 64**

**x: 16**

**q: 14**

**j: 7**

**z: 5**

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**Bigram occurences:**

**('ee', 118)**

**('et', 98)**

**('ae', 92)**

**('te', 89)**

**('tt', 80)**

**('eo', 80)**

**('ot', 76)**

**('he', 73)**

**('at', 70)**

**('ei', 69)**

**('ea', 69)**

**('oe', 68)**

**('to', 66)**

**('ta', 65)**

**('ne', 65)**

**('es', 64)**

**('eh', 63)**

**('th', 62)**

**('ie', 61)**

**('aa', 58)**

**('en', 58)**

**('er', 56)**

**('tn', 55)**

**('el', 55)**

**('it', 54)**

**('ht', 54)**

**('ti', 54)**

**('re', 53)**

**('ed', 52)**

**('ia', 51)**

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**Trigram occurences:**

**('the', 40)**

**('ehe', 34)**

**('ihe', 26)**

**('eth', 25)**

**('ath', 23)**

**('ohe', 20)**

**('aan', 19)**

**('ith', 19)**

**('nhe', 18)**

**('ean', 18)**

**('ahe', 18)**

**('eou', 18)**

**('tth', 18)**

**('end', 17)**

**('eer', 17)**

**('lth', 17)**

**('oth', 17)**

**('hhe', 17)**

**('tan', 16)**

**('ein', 16)**

**('hth', 15)**

**('dhe', 15)**

**('tit', 15)**

**('nth', 15)**

**('rhe', 15)**

**('lhe', 14)**

**('eto', 14)**

**('sth', 14)**

**('nin', 13)**

**('dth', 13)**

Output for Alice in wonderland chapter 8:

**Overall character occurences:**

**e: 1453**

**t: 965**

**a: 840**

**o: 736**

**h: 734**

**n: 718**

**i: 670**

**s: 615**

**r: 515**

**d: 500**

**l: 418**

**u: 329**

**g: 265**

**w: 256**

**c: 240**

**f: 200**

**y: 193**

**m: 181**

**p: 127**

**b: 123**

**k: 103**

**v: 90**

**q: 47**

**x: 24**

**j: 13**

**z: 4**

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**Bigram occurences:**

**('ee', 167)**

**('te', 110)**

**('et', 105)**

**('eo', 87)**

**('en', 87)**

**('ae', 82)**

**('ea', 79)**

**('ne', 79)**

**('eh', 77)**

**('oe', 76)**

**('ie', 73)**

**('he', 69)**

**('ei', 66)**

**('tt', 65)**

**('ta', 64)**

**('se', 62)**

**('aa', 59)**

**('es', 59)**

**('tn', 59)**

**('at', 59)**

**('le', 56)**

**('ot', 54)**

**('re', 53)**

**('er', 52)**

**('na', 51)**

**('oo', 50)**

**('de', 50)**

**('oa', 49)**

**('it', 49)**

**('ha', 49)**

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**Trigram occurences:**

**('ehe', 50)**

**('eth', 44)**

**('the', 33)**

**('tth', 27)**

**('nhe', 25)**

**('ath', 23)**

**('hhe', 23)**

**('ein', 21)**

**('ith', 21)**

**('oth', 20)**

**('ean', 20)**

**('ohe', 20)**

**('rhe', 19)**

**('eou', 19)**

**('eer', 18)**

**('nth', 17)**

**('rth', 17)**

**('end', 17)**

**('tin', 17)**

**('eed', 16)**

**('ihe', 15)**

**('ner', 15)**

**('hin', 15)**

**('ahe', 15)**

**('eng', 15)**

**('hth', 15)**

**('aer', 15)**

**('lth', 14)**

**('een', 14)**

**('dhe', 14)**

1. The two sets of characters are very similar, the first 9 most common characters are exactly the same for each analyzed chapter of Alice in wonderland, but the frequencies of each character are slightly different. The most common bigram for each chapter was ‘ee’ and the most frequent trigrams for each chapter are similar but slightly different.c