1. Write Python code and use MapReduct to count occurrences of each word in the first text file (file.txt). How many times each word is repeated?

## MY DOB IS 24/SEP/1998

the month is september(09), it is divided by 2 and rounded to 5. the 5th book is Harry Potter and the order of phonex

the date is 24 so I have extracted the 10 pages starting from the 24th page (file1)

. the year is 98, so i have extracted the 10 pages starting from 98th (page file2)

```
In [1]: import re
                                       # importing the required packages
        import string
        from functools import reduce
        from collections import Counter
In [2]: (text):
        e.findall(r'\w+', text.lower()) # regular expression '\w+' takes whole
                                                    # returning the list of words
        rds
In [3]: a open('file1.txt', 'rb') as file:
                                                             # Opening the 'file1.t
                                                             # Reading all lines fr
        lines = file.readlines()
        lines = [line.decode('utf-8') for line in lines]
text = ''.join(lines)
                                                             # Joining the list of
        words = map_words(text)
                                                             # calling the 'map_wor
In [4]: rd_counts_list = list(map(Counter, [words]))
                                                             # Using the map functi
        tal word counts = reduce(lambda x, y: x + y, word counts list) # Using 'r
        r word, count in total word counts.items(): # Iterateing through the to
         print(f'{word}: {count}')
        of: 66
        phoenix: 11
        j: 11
        k: 11
        rowling: 11
In [6]: def map_words(text):
        an: 9 return re.findall(r'\w+', text.lower()) # regular expression '\w+' inch: 1
        from: 13
In [7]: deflev:non_english_word(word, spellchecker):
        s: 32eturn not word.isdigit() and word not in spellchecker
        when: 5
        silver: 2
        antlers: 1
        caught: 1
        it: 29
In [8]: thing: 2
        was: 45
        checker ()
                                                  # Initializing a SpellChecker ins
                                                  # Initializing a dictionary to st
        From the second text file (file 2.txt), write Python code and use UTF-8 ex
        MapReduct to count how many times mone English words (names; tof
        places, spells etc.) were used. List those words and how many timestic
        each was repeated.
                                                  # Iterating through each word in
        glish_word(word, spellchecker):
                                                 # Checking if the word is non-Eng
In [5]: newpood of = word counts.get(word, 0) + 1 # ## importains in a dequirable wed from functions import reduce
        ofrom Grad charker import SpellChecker # Iterating through the 'word_col
        {count}')
        p: 11
        g: 11
```

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          Grow Gnal checker import SpellChecker # Iterating through the 'word_col
          {count}')
           p: 11
           g: 11
           j: 11
           k: 11
           rowling: 11
           s: 40
           irritably: 1
           t: 12
           heatedly: 1
           kreacher: 1
           c: 2
          m: 5
           mrs: 17
           weasley: 21
           tonks: 8
           11: 2
           exasperatedly: 1
           earsplitting: 1
           yoooou: 1
           mr: 4
           greenland: 1
           evanesco: 1
           mundungus: 13
           n: 1
           sleepily: 1
           gree: 1
           balefully: 1
           arry: 1
           pology: 1
           crookshanks: 2
           absentmindedly: 1
           incredulously: 1
           d: 2
           animagus: 1
           wormtail: 1
           bracingly: 1
           butterbeer: 3
           breadboard: 1
In [ ]:
In [ ]:
```