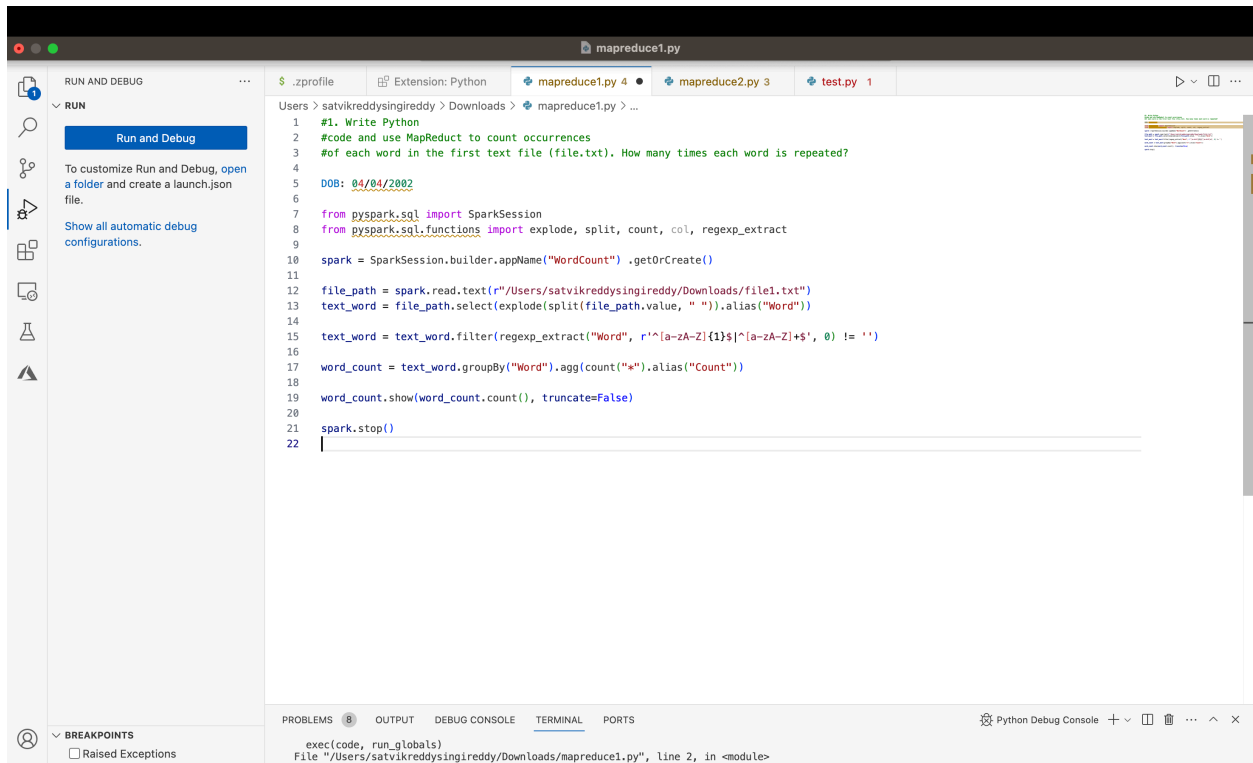


1. Write Python code and use MapReduce to count occurrences of each word in the first text file (file.txt). How many times each word is repeated?

Done 1st question using Apache Spark.

Birth: 04 April 2002.



The screenshot shows a VS Code editor window with a Python file named `mapreduce1.py`. The code is a Jupyter-style notebook with comments and code cells. The comments describe the task: writing Python code to use MapReduce to count word occurrences in a text file. The code uses PySpark to read a text file, explode it into words, filter out empty strings, and then group by word to count occurrences. The output is shown in the terminal.

```
1 #1. Write Python
2 #code and use MapReduce to count occurrences
3 #of each word in the first text file (file.txt). How many times each word is repeated?
4
5 DOB: 04/04/2002
6
7 from pyspark.sql import SparkSession
8 from pyspark.sql.functions import explode, split, count, col, regexp_extract
9
10 spark = SparkSession.builder.appName("WordCount").getOrCreate()
11
12 file_path = spark.read.text(r"/Users/satvikreddysingireddy/Downloads/file1.txt")
13 text_word = file_path.select(explode(split(file_path.value, " ")).alias("Word"))
14
15 text_word = text_word.filter(regexp_extract("Word", r'^[a-zA-Z]{1}$' ^ [a-zA-Z]+$' , 0) != '')
16
17 word_count = text_word.groupBy("Word").agg(count("a").alias("Count"))
18
19 word_count.show(word_count.count(), truncate=False)
20
21 spark.stop()
22
```

The terminal output shows the execution of the code, with the following error message:

```
exec(code, run_globals)
File "/Users/satvikreddysingireddy/Downloads/mapreduce1.py", line 2, in <module>
```

```
Last login: Sun Mar 17 21:27:37 on ttys005
(base) satvikreddysingireddy@satviks-MacBook-Air ~ % pkg install enchant-2
zsh: command not found: pkg
(base) satvikreddysingireddy@satviks-MacBook-Air ~ % brew update
brew install enchant
Already up-to-date.
Warning: enchant 2.6.7 is already installed and up-to-date.
To reinstall 2.6.7, run:
  brew reinstall enchant
(base) satvikreddysingireddy@satviks-MacBook-Air ~ % spark-submit mapreduce1.py
24/03/17 22:20:30 WARN Utils: Your hostname, satviks-MacBook-Air.local resolves to a loopback address: 127.0.0.1; using 192.168.0.18 instead (on interface en0)
24/03/17 22:20:30 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address
python3: can't open file '/Users/satvikreddysingireddy/mapreduce1.py': [Errno 2] No such file or directory
24/03/17 22:20:31 INFO ShutdownHookManager: Shutdown hook called
24/03/17 22:20:31 INFO ShutdownHookManager: Deleting directory /private/var/folders/v9/038tb9754hd98xfx6s10ffm40000gn/T/spark-acl737d8-d275-4d3f-8e4c-5d8ed4ca6e0f
(base) satvikreddysingireddy@satviks-MacBook-Air ~ % spark-submit mapreduce1.py
24/03/17 22:21:04 WARN Utils: Your hostname, satviks-MacBook-Air.local resolves to a loopback address: 127.0.0.1; using 192.168.0.18 instead (on interface en0)
24/03/17 22:21:04 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address
python3: can't open file '/Users/satvikreddysingireddy/mapreduce1.py': [Errno 2] No such file or directory
24/03/17 22:21:05 INFO ShutdownHookManager: Shutdown hook called
24/03/17 22:21:05 INFO ShutdownHookManager: Deleting directory /private/var/folders/v9/038tb9754hd98xfx6s10ffm40000gn/T/spark-S338d7e6-4a41-4fcf-aeae-2bd2e32a9b21
(base) satvikreddysingireddy@satviks-MacBook-Air ~ % cd Downloads
(base) satvikreddysingireddy@satviks-MacBook-Air ~ % spark-submit mapreduce1.py
24/03/17 22:24:50 INFO SparkContext: Running Spark version 3.5.1
24/03/17 22:24:50 INFO SparkContext: OS info Mac OS X, 13.3, arch64
24/03/17 22:24:50 INFO SparkContext: Java version 11.0.401
24/03/17 22:24:50 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
24/03/17 22:24:50 INFO ResourceUtils: =====
24/03/17 22:24:50 INFO ResourceUtils: No custom resources configured for spark.driver.
24/03/17 22:24:50 INFO ResourceUtils: =====
24/03/17 22:24:50 INFO SparkContext: Submitted application: WordCount
24/03/17 22:24:50 INFO ResourceProfile: Default ResourceProfile created, executor resources: Map(cores -> name: cores, amount: 1, script: , vendor: , memory -> name: memory, amount: 1024, script: , vendor: , offHeap -> name: offHeap, amount: 0, script: , vendor: ), task resources: Map(cpus -> name: cpus, amount: 1.0)
24/03/17 22:24:50 INFO ResourceProfile: Limiting resource is cpu
24/03/17 22:24:50 INFO ResourceProfileManager: Added ResourceProfile id: 0
24/03/17 22:24:50 INFO SecurityManager: Changing view acls to: satvikreddysingireddy
24/03/17 22:24:50 INFO SecurityManager: Changing modify acls to: satvikreddysingireddy
24/03/17 22:24:50 INFO SecurityManager: Changing view acls groups to:
24/03/17 22:24:50 INFO SecurityManager: Changing modify acls groups to:
24/03/17 22:24:50 INFO SecurityManager: SecurityManager: authentication disabled; ui acls disabled; users with view permissions: satvikreddysingireddy; groups with view permissions: EMPTY; users with modify permissions: satvikreddysingireddy; groups with modify permissions: EMPTY
24/03/17 22:24:50 INFO Utils: Successfully started service 'sparkDriver' on port 56842.
24/03/17 22:24:50 INFO SparkEnv: Registering MapOutputTracker
24/03/17 22:24:50 INFO SparkEnv: Registering BlockManagerMaster
24/03/17 22:24:50 INFO BlockManagerMasterEndpoint: Using org.apache.spark.util.MutableURLClassLoader@218e8834 for default.
24/03/17 22:24:50 INFO BlockManagerMasterEndpoint: BlockManagerMasterEndpoint up
24/03/17 22:24:50 INFO SparkEnv: Registering BlockManagerMasterHeartbeat
24/03/17 22:24:50 INFO DiskBlockManager: Created local directory at /private/var/folders/v9/038tb9754hd98xfx6s10ffm40000gn/T/blockmgr-6994d359-96ac-4f2d-81d0-f87e1e1929a2
24/03/17 22:24:50 INFO MemoryStore: MemoryStore started with capacity 366.3 MiB
24/03/17 22:24:50 INFO SparkEnv: Registering OutputCommitCoordinator
24/03/17 22:24:50 INFO JettyUtils: Start Jetty 0.0.0.0:4040 for SparkUI
24/03/17 22:24:51 INFO Utils: Successfully started service 'SparkUI' on port 4040.
24/03/17 22:24:51 INFO Executor: Starting executor ID driver on host 192.168.0.18
24/03/17 22:24:51 INFO Executor: OS info Mac OS X, 13.3, arch64
24/03/17 22:24:51 INFO Executor: Java version 11.0.401
24/03/17 22:24:51 INFO Executor: Starting executor with user classpath (userClassPathFirst = false): ''
24/03/17 22:24:51 INFO Executor: Created or updated repl class loader org.apache.spark.util.MutableURLClassLoader@218e8834 for default.
24/03/17 22:24:51 INFO Utils: Successfully started service 'org.apache.spark.network.netty.NettyBlockTransferService' on port 56843.
24/03/17 22:24:51 INFO NettyBlockTransferService: Server created on 192.168.0.18:56843
24/03/17 22:24:51 INFO BlockManager: Using org.apache.spark.storage.RandomBlockReplicationPolicy for block replication policy
24/03/17 22:24:51 INFO BlockManagerMaster: Registering BlockManager BlockManagerId(driver, 192.168.0.18, 56843, None)
24/03/17 22:24:51 INFO BlockManagerMasterEndpoint: Registering block manager 192.168.0.18:56843 with 366.3 MiB RAM, BlockManagerId(driver, 192.168.0.18, 56843, None)
24/03/17 22:24:51 INFO BlockManagerMaster: Registered BlockManager BlockManagerId(driver, 192.168.0.18, 56843, None)
24/03/17 22:24:51 INFO BlockManager: Initialized BlockManager: BlockManagerId(driver, 192.168.0.18, 56843, None)
24/03/17 22:24:51 INFO SharedState: Setting hive.metastore.warehouse.dir ('null') to the value of spark.sql.warehouse.dir.
```

Word	Count
some	5
hope	2
few	4
still	3
those	3
harder	1
received	1
taking	1
often	1
belonged	1
tomorrow	2
watch	2
Phoenix	11
stomach	2
slow	1
admitting	1
If	5
Number	1
traffic	1
ready	1
Exactly	1
day	1
insistent	1
among	2
Prophet	2
One	1
Boxing	1
raised	2
even	6
Hermione	6
did	6
attempted	1
escaped	1
got	2
two	2
But	3
Petunia	6
cared	1
Potter	12
Five	1
scream	1
anyone	2
uncle	3
Voldemort	6
bikes	1
Mary	1
occurred	1
moments	1
furious	1
Heavyweight	1
Aunt	10
flower	3
field	1
magazine	1
could	11
trying	1
him	18
toward	3
temper	1
throwing	1
set	3
discovery	1

wrought	1
owls	3
haunts	1
fact	1
Road	1
continued	1
neighbors	1
starting	1
dying	2
Little	2
ig	11
who	12
down	2
hell	1
not	17
perfectly	3
low	2
beating	1
faces	1
will	1
snarled	2
sure	5
lash	1
because	1
chocolates	1
capable	1
lose	1
by	11
stuck	3
must	2
cousin	1
echoing	1
breathed	1
letters	4
swings	1
opposite	1
owners	1
resultant	1
you	14
everything	2
handling	1
new	1
sitting	2
growing	1
exactly	1
page	1
stranded	1
hundredth	1
surrounding	2
more	9
glanced	2
In	4
Cedric	2
seemed	6
back	6
graveyard	2
frustrated	1
man	1
sit	1
afraid	1
lock	1
there	5
tried	2
houses	1
beds	1

respond	1
summer	12
news	17
tiniest	11
was	146
famous	12
obsessively	1
else	1
face	13
regretted	1
broomstick	1
park	4
coiled	1
recently	1
helicopter	1
their	18
jumped	1
ordinary	1
along	4
alleyway	1
for	18
flew	1
sausage-like	1
vague	1
remotely	1
colors	1
how	16
bring	1
tombstone	1
saw	1
learned	1
rolled	2
spoken	1
desperate	1
turned	3
tantalizing	1
manicured	1
cautiously	1
under	4
looked	2
love	1
top	2
soon	1
words	1
wooden	1
hear	3
friends	2
terrified	3
contained	1
worth	1
particularly	1
four	1
too	3
Could	2
kind	1
one	2
Dudley	19
casting	1
faithful	1
in	41
She	1
crossed	2
writhed	1
wilting	1
careful	1

unmistakably	1
they	19
bringing	12
Kept	1
person	1
become	2
with	11
outside	1
tell	3
told	4
any more	1
cracking	3
merely	1
bear	1
alarm	1
say	2
group	1
powerless	1
had	55
angry	2
out	18
lives	1
saying	1
pulling	2
quite	15
take	1
twelve	1
himself	16
cat	1
same	2
be	21
dry	1
cause	1
As	4
magical	3
dreams	1
solid	1
heading	1
happened	2
disappeared	1
realized	1
squatting	1
days	1
appeared	2
interrupted	1
racket	1
idiots	1
Dumbledore	1
grass	2
Secure	1
than	4
straightened	1
these	2
gate	1
inches	1
left	2
awoken	1
expensive	1
kept	3
reached	3
your	4
inside	3
both	1
instead	1
convicted	1

Isank	1
Iticking	1
Iwending	1
Iimpulse	1
Ilay	2
Ihead	3
INobody	1
Iwarned	1
Ipatches	1
Idrought	1
Isplit	1
Ipaper	1
Iyears	1
Iwheeling	1
Ikeeping	1
Ilater	1
Iscar	2
Iwhenever	1
Iseconds	1
Ifun	2
Ifrustrating	1
Ihide	1
Ifeathers	1
ISirius	3
Ilonger	1
IGave	1
Iaunt	3
Icontact	1
I tied	1
Isource	1
IPrivet	5
I me	3
Inoise	2
Igrumble	1
I school	1
I tree	1
IUncle	17
I Lord	1
Iold	2
Istronger	1
I yell	1
Ivelvety	1
I learning	1
I next	2
I felt	4
I pain	1
IPetunias	1
Icaution	1
I incurably	1
I crossing	1
I vaulted	1
I figure	1
I death	1
I purple	2
I nasty	2
I having	1
I past	1
I punching	1
I when	12
I stepped	2
I night	1
I boys	1
I trembled	1
I after	5
I go	1

I life	1
I e	11
I fresh	1
I streaked	1
I aware	1
I revisiting	1
I enough	2
I Bungy	1
I disturbed	1
I on	15
I murder	1
I but	15
I newsreader	1
I trunk	1
I begonias	1
I round	1
I gang	1
I end	1
I nothing	3
I grip	1
I hiding	2
I without	2
I managed	1
I unsettling	1
I sleepy	1
I beckoned	1
I streets	1
I carried	1
I entered	1
I Seeking	1
I bad	2
I favorite	1
I people	2
I turn	1
I again	3
I Apparating	1
I Honeydukes	1
I others	2
I jeans	2
I proper	1
I remind	1
I eyes	4
I Dobby	4
I completely	2
I attended	1
I use	1
I mounting	1
I crack	1
I focus	1
I cost	1
I far	1
I headed	1
I stolen	1
I tight	1
I These	1
I cars	1
I entrance	1
I into	17
I steps	2
I any	4
I following	1
I aside	1
I hurting	1
I backfire	1
I garden	1

leaked	1
expect	1
sat	1
front	5
knees	1
going	2
Burrow	2
view	1
listening	3
firm	1
waking	1
arm	1
Rowling	11
it	15
Southeast	1
Dorkins	1
knew	3
overreacting	1
birthday	2
nearly	1
sternly	1
hooligan	1
figures	1
Muggles	1
upright	1
grinace	1
His	1
lowered	2
able	1
its	1
singing	1
full	3
off	6
dark	2
probably	1
now	4
presumably	1
dinner	1
Often	1
beyond	1
have	8
novel	1
only	4
nightmares	1
soft	1
wondered	1
spot	1
doing	2
truth	1
possible	1
You	1
presents	1
provoking	1
expulsion	1
sniffed	1
sky	1
curious	1
forgotten	2
insides	1
rage	1
it	4
morning	1
crashed	1
things	1
forward	2

became	1
our	5
long	3
Champion	1
accurately	1
He	18
invisible	1
thought	4
brilliant	1
A	2
possibly	1
just	5
done	2
racing	1
mutter	1
lifelong	1
mean	2
deserted	1
anger	1
the	157
really	3
find	2
care	2
lurking	1
expectation	1
temptation	2
across	2
How	2
similar	1
window	1
finally	1
want	2
together	1
strong	1
Order	11
write	1
anything	3
staggered	1
feet	2
parched	1
Vernon	11
net	1
looking	1
see	4
wheeled	2
consolation	1
feel	1
item	1
followed	2
resigned	1
moodily	1
my	1
Before	1
continuing	1
bothered	1
beeline	1
divorce	1
precise	1
halfway	2
whizzed	1
silhouette	1
onto	3
simply	1
square	2
fell	2

said	12	
from	14	
silence	1	
hesitated	1	
why	3	
stupid	1	
she	2	
unsheathing	1	
exchanged	1	
sinking	1	
passed	2	
temporary	1	
Dursleys	2	
much	6	
certainty	1	
them	4	
fight	1	
drove	1	
waistband	1	
make	2	
Drive	1	
road	1	
vast	1	
hard	1	
farewells	1	
what	8	
impossible	1	
nearby	1	
Look	1	
unexplained	1	
broke	1	
hydrangea	1	
there	2	
nose	2	
irritation	1	
up	9	
resums	1	
details	1	
salad	1	
dwelling	1	
parked	1	
pair	1	
proved	1	
vent	1	
danger	1	
like	3	
formidable	1	
Outside	1	
evening	1	
Perhaps	2	
provided	1	
shed	1	
preferred	1	
getting	1	
and	75	
recognized	1	
sound	6	
voice	3	
hands	3	
do	6	
known	1	
been	17	
force	1	
lot	2	
here	2	

behavior	1	
three	1	
every	2	
gone	1	
important	2	
around	6	
amount	1	
away	1	
locked	2	
fool	1	
moved	2	
are	1	
delivered	1	
ends	1	
look	3	
hoping	1	
price	1	
sensation	1	
where	1	
darkening	1	
injustice	1	
surely	1	
sordid	1	
clean	2	
crawl	1	
weaving	1	
beside	1	
plagued	1	
case	3	
small	1	
against	1	
tightly	1	
Whinging	2	
disting	1	
of	66	
through	3	
trouble	1	
accompanied	1	
very	6	
breaking	2	
made	8	
bony	1	
until	1	
thrown	1	
threatened	1	
no	3	
call	2	
hopelessness	1	
murdered	1	
question	1	
several	3	
What	2	
once	2	
hitting	1	
outstretched	1	
The	6	
vanished	1	
yet	1	
Neighborhood	1	
misty	1	
loud	1	
someone	1	
world	1	
croaky	1	
Someone	1	

lan	2
released	1
matters	1
voices	2
stared	4
peering	1
something	5
husband	1
galling	1
bed	1
mastered	1
found	2
quick	1
hints	1
glow	1
at	24
accident	1
waiting	1
sign	2
goggled	1
reduced	2
time	3
well	1
pressing	1
frustration	2
least	2
regular	1
crash	1
change	1
every	2
way	5
before	5
get	2
commit	1
try	1
that	42
daily	2
trapped	1
closed	2
fingers	1
hastily	1
hardly	2
nobody	1
cut	1
telling	1
children	1
Harry	52
I	4
were	18
feeling	3
worry	1
p	11
would	16
changes	1
best	1
Junior	1
owned	1
let	2
short	1
think	4
understand	1
run	1
finishing	1
clapped	1
interesting	1

endure	1
taunt	1
home	1
hearing	2
served	2
hardened	1
come	2
thin	2
draw	1
destruction	1
blue	1
all	12
good	3
so	10
carrying	1
corner	1
china	1
delightedly	1
smart	1
a	62
if	7
pestilential	1
went	1
yelped	1
pounded	1
forehead	1
musings	1
primary	1
as	22
budgie	1
car	2
lately	1
this	10
why	3
opened	1
preparing	1
looks	1
play	1
considering	1
welled	1
darkness	1
right	5
clever	1
near	1
five	1
being	2
thinking	1
risking	1
prickled	1
punch	1
about	8
shock	1
devil	1
route	1
busy	2
contained	1
stifling	1
her	4
blazing	1
stuffed	1
tis	1
though	5
know	8
had	1
another	1

his	154	
has	12	
came	14	
wand	13	
barely	12	
center	11	
criminal	11	
then	16	
striding	11	
side	11	
large	12	
point	14	
nothing	12	
first	14	
sprinklers	11	
open	12	
give	12	
triumphant	11	
crude	11	
talent	11	
interested	11	
maintaining	11	
fair	11	
strange	11	
since	11	
admittedly	11	
resisted	11	
might	11	
whom	11	
lilac	11	
caused	11	
believe	11	
when	11	
for	16	
collided	11	
pay	12	
was	11	
reward	11	
shadow	11	
to	174	
shouted	11	
grin	12	
asked	11	
seeing	11	
roads	11	
watched	13	
inviting	11	
tension	11	
electric	11	
behind	11	
headline	11	
Magnolia	7	
horsey	11	
little	11	
smell	11	
also	11	
supposed	12	
we	12	
ran	12	
narrow	11	
pistol	11	
garage	11	
wizard	11	
air	11	
disapproving	11	

tension	11	
electric	11	
behind	11	
headline	11	
Magnolia	7	
horsey	11	
little	11	
smell	11	
also	11	
supposed	12	
we	12	
ran	12	
narrow	11	
pistol	11	
garage	11	
wizard	11	
air	11	
disapproving	11	
appearance	11	
cool	11	
leaving	11	
dead	11	
wanted	11	
noble	11	
believed	12	
making	12	
glaring	11	
manic	11	
stop	11	
anytime	11	
almost	12	
he	165	
surged	11	
which	13	
Ron	16	
gave	11	
walked	12	
And	13	
owl	11	
killed	11	
thoughts	11	
swing	11	
called	11	
windows	11	
strike	11	
living	11	
street	24/03/17 22:24:54 INFO SparkContext: SparkContext is stopping with exitCode 0.	
li	11	
various	12	
empty	12	
resist	11	

```
24/03/17 22:24:54 INFO SparkUI: Stopped Spark web UI at http://192.168.0.18:4040
24/03/17 22:24:54 INFO MapOutputTrackerMasterEndpoint: MapOutputTrackerMasterEndpoint stopped!
24/03/17 22:24:54 INFO MemoryStore: MemoryStore cleared
24/03/17 22:24:54 INFO BlockManager: BlockManager stopped
24/03/17 22:24:54 INFO BlockManagerMaster: BlockManagerMaster stopped
24/03/17 22:24:54 INFO OutputCommitCoordinator$OutputCommitCoordinatorEndpoint: OutputCommitCoordinator stopped!
24/03/17 22:24:54 INFO SparkContext: Successfully stopped SparkContext
24/03/17 22:24:54 INFO ShutdownHookManager: Shutdown hook called
24/03/17 22:24:54 INFO ShutdownHookManager: Deleting directory /private/var/folders/v9/838tb9754hd98fx6s10ffm40000gn/T/spark-3f0e1c9b-884f-4770-8ca1-b7966e468e7c/pyspark-0a004878-42d1-47f6-89ce-7bdd1da95438
24/03/17 22:24:54 INFO ShutdownHookManager: Deleting directory /private/var/folders/v9/838tb9754hd98fx6s10ffm40000gn/T/spark-e017a811-69dd-4c1e-b4cf-e2e81ae036f5e
24/03/17 22:24:54 INFO ShutdownHookManager: Deleting directory /private/var/folders/v9/838tb9754hd98fx6s10ffm40000gn/T/spark-3f0e1c9b-884f-4770-8ca1-b7966e468e7c
(base) satvikreddysingireddy@satviks-MacBook-Air downloads %
```


In [1]: #2. From the second text file (file2.txt), write Python code and use Map/Reduce to find out how many times non-English words (names, places, spells etc.) were used in the file. Also, use a dictionary to store those words and how many times each was repeated.

```
def load_eng_words(file_path):
    #dob : 04/04/2002
    #Loading English words from a file and store them .

    eng_words = set()
    with open(file_path, 'r', encoding='utf-8') as engfile:
        for line in engfile:
            word = line.strip().lower()
            eng_words.add(word)
    return eng_words
#Returns: Set containing English words in lowercase.

def count_non_eng_words(file_path, eng_words):
    #Count non-English words in a file.

    non_eng = {}
    with open(file_path, 'r', encoding='utf-8') as file:
        for line in file:
            words = line.strip().split()
            for word in words:
                word = word.lower()
                if word not in eng_words:
                    non_eng[word] = non_eng.get(word, 0) + 1
    return non_eng

if __name__ == "__main__":
    # Load English words from a file
    eng_words = load_eng_words("usa.txt")

    # Counting non-English words in file2.txt
    file_path = "file2.txt"
    non_eng_word_counts = count_non_eng_words(file_path, eng_words)

    # Printing non-English words
    for word, count in sorted(non_eng_word_counts.items()):
        print(f"{word}: {count}")
```

```
there: 1  
"they're: 1  
"they've: 1  
"this: 2  
"trying: 1  
"we: 1  
"we've: 1  
"what: 2  
"what?": 1  
"whatever: 1  
"will: 1  
"yeah,": 1  
"yes,": 1  
"you: 1  
"your: 2  
"you've: 1  
"-: 1  
"...: 1  
...: 3  
...": 1
```



```
In [ ]: (which: 1
102: 1
103: 1
104: 1
105: 1
106: 1
107: 1
108: 1
109: 1
110: 1
111: 1
112: 1
?": 1
about,: 2
above,: 1
accord,: 1
again.: 1
again.": 1
alastor: 1
alert,: 1
all.: 1
and,: 1
animagus: 1
anti-wizard: 1
anyone.": 1
apparate: 1
apprehensive.: 1
are,: 1
arms.: 1
around,: 1
arrived.": 1
asked,: 1
asked.: 1
attack.: 1
awake.: 1
bad,: 1
balding,: 1
bandy-legged: 1
beaklike: 1
bed,: 1
bedroom,: 1
before.: 1
bewildered,: 1
bill,: 3
bill.: 2
bill?": 1
bill's: 2
bludger's: 1
boggart,: 1
bottles,: 1
bracingly.: 1
breadboard,: 1
brightly,: 1
building.: 1
business,: 1
butterbeer: 3
butterbeer,: 1
```

```
butterbeer,: 1
called,: 1
canvas.: 1
can't: 1
cat,: 1
ceiling.: 1
chair,: 2
charm,: 1
chase.: 1
cleaning?": 1
cleaning's: 1
cloud.: 1
coldly.: 1
come?": 1
conversation,: 1
conversation.: 1
course,: 1
cover-up,: 1
crash,: 1
crest.": 1
crookshanks: 2
crookshanks,: 1
cross-legged: 1
cuff.: 1
cutlery.: 1
darkness.: 1
dead,: 1
dealings,: 1
dear,: 1
dear,": 1
dementor: 1
dementors.: 1
did.: 1
didja: 1
didn't: 4
died,: 1
distaste.: 1
do,: 1
do.": 1
doesn't: 1
don't: 3
don't.: 1
down,: 1
downstairs,: 1
dresser,: 2
droopy,: 1
dudley's).: 1
dumbledore,: 1
dumbledore's: 1
dung,: 1
dung,": 1
eat!": 1
eat,": 1
either.: 1
end,: 1
entertainment,: 1
enthusiastically,: 1
```

```
everywhere,: 1
exasperated,: 1
face,: 1
face.: 1
far.: 1
far?": 1
feels.": 1
feet!: 1
feet.: 2
fifteenth-century: 1
figgy: 1
fights...: 1
floor,: 1
food.: 1
forward,: 1
forward.: 1
fred,: 2
from?: 1
frowning.: 1
fumes,: 1
george,: 1
giggled.: 1
ginny,: 1
glasses,: 1
goblet.: 1
goblets,: 2
goblin-wrought: 1
goblins.: 1
godfather.: 2
gold;: 1
greenland,: 1
grim-faced,: 1
habitation,"": 1
hair.: 1
hand,"": 1
harry,: 7
harry,"": 1
harry.: 6
harry?": 1
harry's: 3
hasn't: 3
haven't: 2
head.: 1
heaven's: 1
help!": 1
here?": 1
hermione's: 1
hesitated,: 1
he's: 6
hiccuping.: 1
him,: 2
him.: 1
himself.: 1
horn-rimmed: 1
house,"": 1
house-elf,: 1
husband,: 2
```



```
incredulously.: 1
indifferently.: 1
it,: 1
it,: 1
it.: 1
it.: 1
it's: 3
i'd: 1
i'll: 1
i'm: 4
i've: 3
j.k.: 11
kitchen,: 1
kitchen.: 2
knife,: 1
know,: 2
lads,: 1
landed,: 1
large.: 1
later,: 1
laughing.: 1
laughter.: 1
left,: 1
left,: 1
legs,: 2
lessons,: 1
let's: 1
like,: 1
lingered.: 1
looking.: 1
lousy,: 1
lupin,: 2
lupin.: 1
magic's: 1
man,: 1
mate?": 1
me,: 3
meetings,: 1
meeting's: 1
met!: 1
mine!': 1
molly,: 3
molly.: 1
molly?": 1
moment,: 1
month.: 1
more,: 1
mother's: 1
mouth,: 1
mouthfuls.: 1
mr.: 7
mrs.: 17
much,: 1
mum,: 1
mundungus,: 9
mundungus,: 3
mundungus.: 1
```

```
mushroom,: 1
muttered,: 1
myself."": 1
m': 1
name.: 1
name?": 1
next?: 1
nicely.: 1
no,: 3
normal,: 1
noses.: 1
nostril.: 1
not.: 1
nottingham?": 1
now,: 1
now.: 1
obliged,: 1
off,: 1
offered,"": 1
ominously,: 1
on,"": 1
on.: 1
once,: 1
once.: 2
one's: 1
order?": 1
out."": 1
over,: 1
pantry.: 1
parchment,: 1
parchment.: 1
pardon,: 1
parents': 1
pipe.: 1
plates,: 1
plates.: 1
pocket,: 1
pockets,: 1
ponytail,: 1
prolonged,: 1
pudding.: 1
purring,: 1
quick,: 1
quickly.: 1
quietly.: 1
ragnok,: 1
rags.: 1
reason,: 1
red-haired: 1
relaxed,: 2
reports,: 1
right,: 4
ron,: 1
room,: 2
room.: 1
rowling: 11
said,: 3
```

```
sake!": 1
sarcastically.: 1
says,: 2
seats.: 1
seconds.: 1
shaking.: 1
sharply,: 1
shrieked.: 1
silver,: 2
since?": 1
sirius,: 6
sirius.: 4
sirius...": 1
sirius's: 4
sleepily.: 1
slowly,: 1
snape's: 1
snape's,: 1
snout,: 1
something,: 1
son,: 1
sorry,: 1
sounded.: 1
started,: 1
steps,: 1
stew,: 1
surface,: 1
table,: 2
table.: 7
tempted.: 1
tense.: 1
them!": 1
them.: 2
then,: 1
then,: 1
then?': 1
then?": 1
there's: 2
they'd: 1
they're: 3
thin,: 1
thing!": 1
think,: 1
though,: 1
throat.: 1
time!": 1
time,: 3
toads,: 1
tomorrow.": 1
tonks,: 2
too,: 1
too,: 1
too.: 1
tried,: 1
trouble!": 1
turned,: 1
twins,: 1
```

```
twist,: 1
undertone.: 1
unfocused.: 1
up,: 1
up.: 1
useful,: 1
useless.: 1
vanished.: 1
vigorously.: 1
voice,: 2
voldemort: 1
voldemort.: 1
voldemort's: 1
voting,: 1
walls.: 1
wand,: 2
wand.: 1
wasn't: 1
weasley: 17
weasley,: 5
weasley.: 1
weasley's: 1
welcome,: 1
well,: 1
we're: 1
we've: 1
what's: 2
widely,: 1
will,: 1
wine,: 1
wonderful,: 1
wooden.: 1
words.: 1
wormtail: 1
would,: 1
wouldn't: 1
wrong,: 1
yawn.: 1
yeah,: 2
years,: 1
yet,: 1
yet,: 1
you!": 1
you,: 1
you-know-who,: 1
you.: 1
you.: 1
you?: 1
you?": 1
you'd: 1
you'll: 3
you're: 3
you've: 6
|: 11
-: 11
-: 10
-": 12
```

```
'nicked: 1
''ere,: 1
'ad: 1
'arry?": 1
'as.: 1
'ave: 1
'cos: 1
'course,: 1
'e: 4
'em: 1
'gree: 1
'is: 1
'pology,": 1
"ah,": 1
"and: 3
"at: 1
"because: 1
"beg: 1
"bill: 1
"blimey,: 1
"boys,": 1
"but: 3
"but,: 1
"do: 1
"don't: 1
"eh?": 1
"er: 1
"evanesco!": 1
"finest: 1
"for: 2
"fred: 1
"good: 1
"had: 1
"harry!": 1
"harry's: 1
"hasn't: 1
"he: 2
"here,: 1
"he's: 2
"how: 2
"i: 8
"it: 1
"i'm: 1
"i've: 1
"journey: 1
"knows: 1
"let's: 1
"listening: 1
"mad-eye: 1
"molly: 1
"my: 1
"nearly: 1
"no: 1
"no,: 3
"no,": 1
"not: 1
"oh: 2
```

```
"owe: 1
"personally,: 1
"right.: 1
"see,: 1
"seen: 1
"sirius?": 1
"sit: 1
"some'n: 1
"sorry: 1
"that'd: 1
"the: 2
"there: 1
"they're: 1
"they've: 1
"this: 2
"trying: 1
"we: 1
"we've: 1
"what: 2
"what?": 1
"whatever: 1
"will: 1
"yeah,": 1
"yes,": 1
"you: 1
"your: 2
"you've: 1
"-: 1
"...: 1
...: 3
...": 1
•
```