

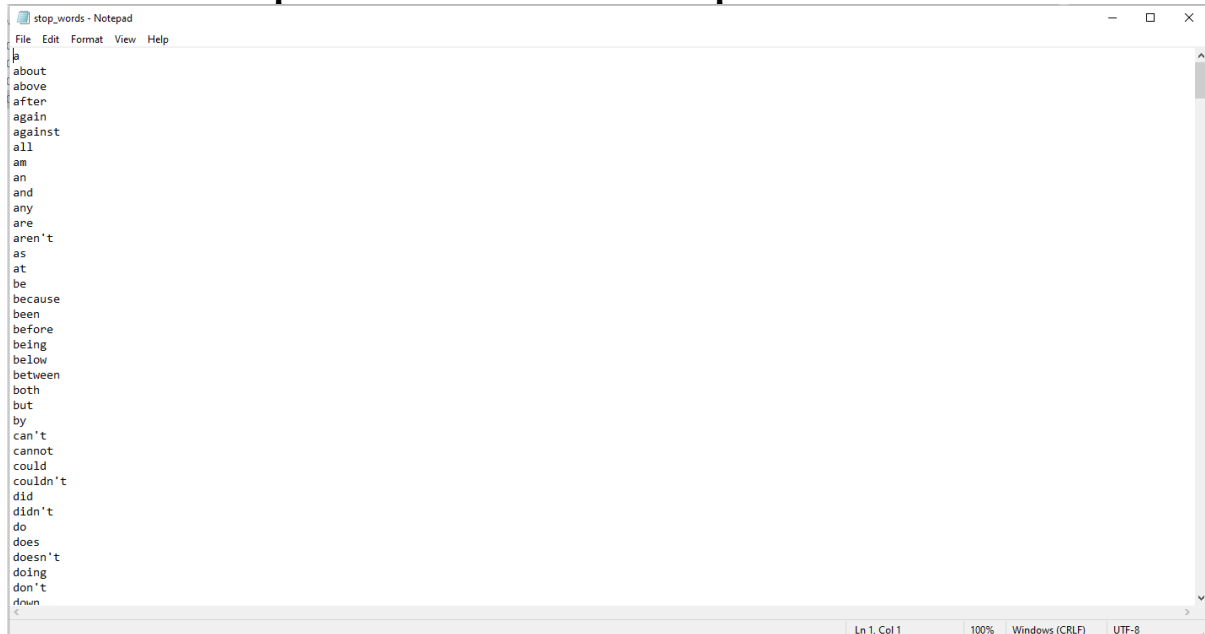
BE CD D
117A1091

EXPERIMENT NO-5

Aim: To Write a program to eliminate stop words.

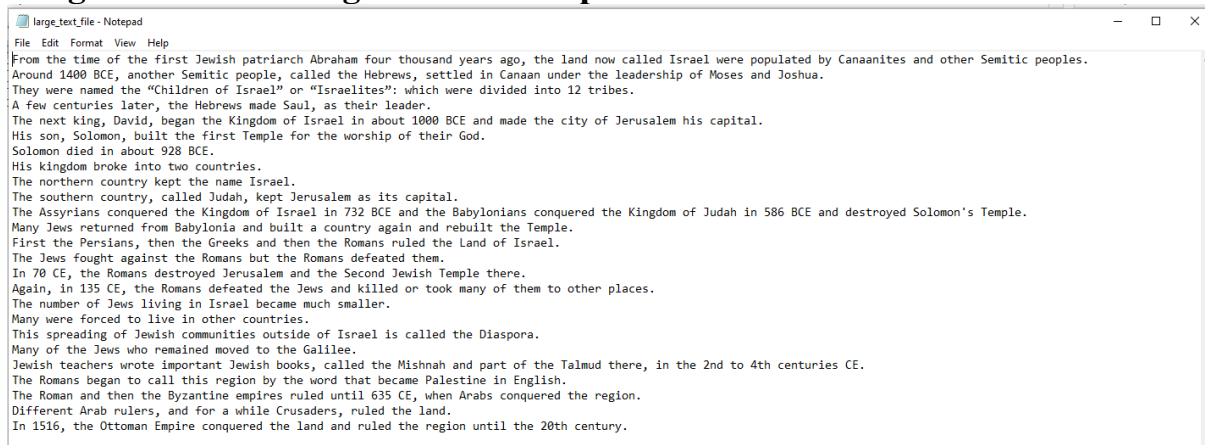
Input:

Text file with stop words included one word per line



```
stop_words - Notepad
File Edit Format View Help
a
about
above
after
again
against
all
am
an
and
any
are
aren't
as
at
be
because
been
before
being
below
between
both
but
by
can't
cannot
could
couldn't
did
didn't
do
does
doesn't
doing
don't
down
```

Large Text file having one sentence per line format



```
large_text_file - Notepad
File Edit Format View Help
From the time of the first Jewish patriarch Abraham four thousand years ago, the land now called Israel were populated by Canaanites and other Semitic peoples.
Around 1400 BCE, another Semitic people, called the Hebrews, settled in Canaan under the leadership of Moses and Joshua.
They were named the "Children of Israel" or "Israelites": which were divided into 12 tribes.
A few centuries later, the Hebrews made Saul, as their leader.
The next king, David, began the Kingdom of Israel in about 1000 BCE and made the city of Jerusalem his capital.
His son, Solomon, built the first Temple for the worship of their God.
Solomon died in about 928 BCE.
His kingdom broke into two countries.
The northern country kept the name Israel.
The southern country, called Judah, kept Jerusalem as its capital.
The Assyrians conquered the Kingdom of Israel in 732 BCE and the Babylonians conquered the Kingdom of Judah in 586 BCE and destroyed Solomon's Temple.
Many Jews returned from Babylonia and built a country again and rebuilt the Temple.
First the Persians, then the Greeks and then the Romans ruled the Land of Israel.
The Jews fought against the Romans but the Romans defeated them.
In 70 CE, the Romans destroyed Jerusalem and the Second Jewish Temple there.
Again, in 135 CE, the Romans defeated the Jews and killed or took many of them to other places.
The number of Jews living in Israel became much smaller.
Many were forced to live in other countries.
This spreading of Jewish communities outside of Israel is called the Diaspora.
Many of the Jews who remained moved to the Galilee.
Jewish teachers wrote important Jewish books, called the Mishnah and part of the Talmud there, in the 2nd to 4th centuries CE.
The Romans began to call this region by the word that became Palestine in English.
The Roman and then the Byzantine empires ruled until 635 CE, when Arabs conquered the region.
Different Arab rulers, and for a while Crusaders, ruled the land.
In 1516, the Ottoman Empire conquered the land and ruled the region until the 20th century.
```

Program:

with open('stop_words.txt', 'r') as stop_words:

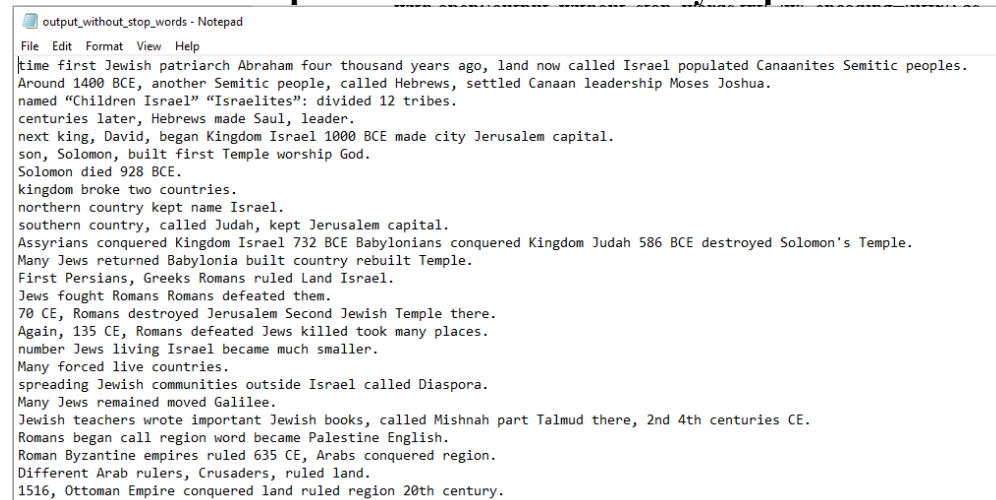
```

with open('large_text_file.txt', 'r', encoding='utf8') as work_file:
    with open('output_without_stop_words.txt', 'w', encoding='utf8') as output:
        stop_list = []
        for line in stop_words.readlines():
            stop_word = line.split('\n')
            stop_list.append(stop_word[0])
        for line in work_file.readlines():
            line_list = []
            line = line.split('\n')
            line.pop()
            if len(line) > 0:
                line_for_split = str(line[0])
                for word in line_for_split.split(' '):
                    if word not in stop_list:
                        line_list.append(word)
            print(str(' ').join(line_list), file = output)

```

Output:

Text File with stop words removed and only important words present



```

File Edit Format View Help
time first Jewish patriarch Abraham four thousand years ago, land now called Israel populated Canaanites Semitic peoples.
Around 1400 BCE, another Semitic people, called Hebrews, settled Canaan leadership Moses Joshua.
named "Children Israel" "Israelites": divided 12 tribes.
centuries later, Hebrews made Saul, leader.
next king, David, began Kingdom Israel 1000 BCE made city Jerusalem capital.
son, Solomon, built first Temple worship God.
Solomon died 928 BCE.
kingdom broke two countries.
northern country kept name Israel.
southern country, called Judah, kept Jerusalem capital.
Assyrians conquered Kingdom Israel 732 BCE Babylonians conquered Kingdom Judah 586 BCE destroyed Solomon's Temple.
Many Jews returned Babylonia built country rebuilt Temple.
First Persians, Greeks Romans ruled Land Israel.
Jews fought Romans Romans defeated them.
70 CE, Romans destroyed Jerusalem Second Jewish Temple there.
Again, 135 CE, Romans defeated Jews killed took many places.
number Jews living Israel became much smaller.
Many forced live countries.
spreading Jewish communities outside Israel called Diaspora.
Many Jews remained moved Galilee.
Jewish teachers wrote important Jewish books, called Mishnah part Talmud there, 2nd 4th centuries CE.
Romans began call region word became Palestine English.
Roman Byzantine empires ruled 635 CE, Arabs conquered region.
Different Arab rulers, Crusaders, ruled land.
1516, Ottoman Empire conquered land ruled region 20th century.

```

Conclusion: Thus, we have successfully implemented a program to eliminate stop words in python.