Assignment 6

1. WAP to read a file line by line and store into a list.

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Code and Output:

```
L = ['Hello\n', 'This is a sample file\n']

file1 = open('myfile2.txt', 'w')
file1.writelines(L)
file1.close()

file1 = open('myfile2.txt', 'r')
lines = file1.readlines()
with open('myfile2.txt') as file:
  line = [i.strip() for i in file]
print(line)
```

```
['Hello', 'This is a sample file']
```

File:

2. WAP to read a file line by line and store into an array.

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Code and Output:

```
L = ['Hello\n', 'This is a sample file\n']

file1 = open('myfile3.txt', 'w')
file1.writelines(L)
file1.close()

file1 = open('myfile3.txt', 'r')
lines = file1.readlines()
with open('myfile3.txt') as file:
  line = [i.strip() for i in file]
print(tuple(line))
```

```
('Hello', 'This is a sample file')
```

File:

myfile2.txt myfile3.txt myfile4.txt

```
Hello
This is a sample file
This is an another line
One More
And again
```

3. WAP to read a random line from a file.

->

Code and Output:

```
import random

L = ['Hello\n', 'This is a sample file\n', 'This is an another line\n', 'One More\n']

file1 = open('myfile4.txt', 'w')
file1.writelines(L)
file1.close()

file1 = open('myfile4.txt', 'r')
lines = file1.readlines()
random_line = random.choice(lines)
print(random_line)
```

```
This is a sample file
```

File:

myfile4.txt

```
Hello
This is a sample file
This is an another line
One More
```

4. WAP to combine each line from the first file with the corresponding line of the second file.

->

Code:

```
list1 = ['Hi\n', 'How are you?\n', 'Welcome\n']
list2 = ['Harsh Dhamecha\n', 'Harsh Dhamecha\n', 'Harsh Dhamecha\n']

file1 = open('file1.txt', 'w')
file1.writelines(list1)

file2 = open('file2.txt', 'w')
file2.writelines(list2)

file3 = open('file3.txt', 'w')
new_line = '\n'
with open('file1.txt', 'r') as f1, open('file2.txt') as f2:
  for (i,j) in zip(f1, f2):
    line1 = i.strip()
    file3.write(line1)
    file3.writelines(' ')
    line2 = j.strip()
    file3.write(line2)
    file3.write(new_line)

with open("file3.txt") as fp:
    for line in fp:
        print("{}".format(line.strip()))
```

Output and File:

```
Hi Harsh Dhamecha
How are you? Harsh Dhamecha
Welcome Harsh Dhamecha
```

new_file1.txt | file3.txt

```
Hi Harsh Dhamecha
How are you? Harsh Dhamecha
Welcome Harsh Dhamecha
```

5. WAP to generate 26 files named A.txt, B.txt upto Z.txt

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Code:

```
for i in range(ord('A'), ord('[')):
  files = open(f'{chr(i)}.txt', 'w')
  files.close()
```

Output:

- A.txt
- B.txt
- C.txt
- D.txt
- E.txt
- F.txt
- G.txt
- H.txt
- I.txt
- J.txt
- K.txt
- L.txt
- M.txt
- N.txt
- O.txt
- P.txt
- Q.txt
- R.txt
- S.txt
- T.txt
- U.txt
- V.txt
- W.txt
- X.txt
- Y.txt
- Z.txt

6. WAP to create a file where all letters are listed by a specified number of letters on each line.

->

Code and Output:

```
file10 = open('new_file1.txt', 'w')
count = 0

for i in range(ord('A'), ord('[')):
  file10.writelines(chr(i))
  count += 1
  if count == 5:
    file10.writelines(' ')
    file10.write('\n')
    count = 0

with open("new_file1.txt") as fp:
    for line in fp:
        print("{}".format(line.strip()))
```

```
ABCDE
FGHIJ
KLMNO
PQRST
UVWXY
Z
```

File:

new_file1.txt

```
ABCDE
FGHIJ
KLMNO
PQRST
UVWXY
Z
```

7. WAP to scrape data of India using worldometer and run it on a live mode. Also, print the total number of Coronavirus cases, Deaths and Recovered.

->

Code:

```
import requests
from bs4 import BeautifulSoup
import time

while True:
  url = 'https://www.worldometers.info/coronavirus/country/india/'
  page = requests.get(url)
  page = page.text

  soup = BeautifulSoup(page, 'html.parser')

  messa = soup.findAll('h1')
  count = soup.findAll('div', {'class': 'maincounter-number'})
  messa = messa[1::]

  for (i,j) in zip(messa, count):
    print(f'{i.text} {j.text}')
  time.sleep(3600)
```

Output:

```
Coronavirus Cases:
20,178

Deaths:
645

Recovered:
3,976

Coronavirus Cases:
20,471

Deaths:
652

Recovered:
3,976
```