Chap. - 6 || P.b.

P.b. - 501

```
In [ ]: f1 = open('p501.txt', 'r')
        f2 = open('e501.txt', 'w+')
        f3 = open('e501.txt', 'w+')

        data = f1.read()
        f2.write(data[::-1])
        f2.seek(0)
        f3.write(f2.read().upper())

        f3.seek(0)
        d3 = f3.readlines()
        print('line2:', d3[1])

        v = 0
        for i in d3:
            for j in i:
                if j in 'AEIOU':
                    v += 1
        print('Vowels :', v)

        f3.close()
        f2.close()
        f1.close()

        # Output:
        # line2: ! YTHGUAN ERA SDNEIRF ,YZARC ERA SDNEIRF
        # Vowels : 22
```

In [ ]:
```python
f = open('p501.txt')
data = f.read()

wr = open('e501.txt', 'w+')
wr.write(data[::-1])

u = open('f501.txt', 'w+')
wr.seek(0)

u.write(wr.read().upper())

u.seek(0)
sl = u.readlines()
print('Line 2 :', sl[1])

u.seek(0)
fd = list(u.read())
print(fd)
v = 0
for i in range(len(fd)):
    if(fd[i] in 'AEIOU'):
        v += 1
print(v)

u.close()
f.close()
wr.close()

# Output:
# Line 2 : ! YTHGUAN ERA SDNEIRF ,YZARC ERA SDNEIRF
# ['!', ' ', 'T', 'S', 'E', 'B', ' ', 'E', 'R', 'A', ' ', 'S', 'D', 'N', 'E
#  'F', ' ', ',', 'T', 'S', 'E', 'N', 'O', 'H', ' ', 'E', 'R', 'A', ' ', 'S
#  'E', 'I', 'R', 'F', '\n', '!', ' ', 'Y', 'T', 'H', 'G', 'U', 'A', 'N', '
#  'A', ' ', 'S', 'D', 'N', 'E', 'I', 'R', 'F', ' ', ',', 'Y', 'Z', 'A', 'R
#  'E', 'R', 'A', ' ', 'S', 'D', 'N', 'E', 'I', 'R', 'F']
# 22
```

P.b. - 502 Write a python program to extract a list of all four-letter words that start and end with the same letter from a given text file.

In [ ]:
```python
# Python Programming
# Java text is here
# Good after noon

f = open('p502.txt')
d = f.read().split()
print(d)
for i in d:
    if((len(i)==4)and(i[0]==i[-1])):
        print(i)


# Output:
# ['Python', 'Programming', 'Java', 'text', 'is', 'here', 'Good', 'after',
# text
# noon
```

P.b. - 503

In [ ]:
```python
f =  open('Story.txt')

for i in f:
    l = i.split()
    for j in l:
        if(j[0]=='I'):
            print(j[::-1], end=' ')
        else:
            print(j, end=" ")

# Output:
# AIDNI SI MY COUNTRY
```

P.b. - 500

In [ ]:
```python
# apple is fruit which is healthy
# greenapple is tasty and sweet
# oranges and bananas are good for health
# fuits are good source of vitamins
```

In [ ]:
```python
f = open('frt.txt')
s = input("Enter String : ")

data = f.read().split()

for word in data:
    flag = True
    for ch in s:
        if not word.count(ch) >= s.count(ch):
            flag = False
            break
    if flag:
        print(word,end=", ")
f.close()

# Output:
# Enter String : nas
# oranges, bananas, vitamins,
```

P.b. - 499

In [ ]:
```python
f = open(input("Enter File Name : "))
data = f.readlines()
start = 0
stop = 25

while True:
    for i in range(start, min(stop, len(data))):
        print(data[i], end=" ")
    if stop > len(data):
        print('End of file.')
        break
    st = input('Continue or Stop : ')
    if st=='Stop':
        break
    else:
        start = stop
        stop += 25
```

In [ ]:
```python
f = open('p499.txt', 'w')
for i in range(1, 131):
    f.write(str(i)+ '. python' + '\n')

f.close()
```