Chap.-6 || Working with File

Methods :-

- 1. open() = file doesn't exist then it will create a file
- 2. close()
- 3. write() ¶
- 4. writelines()
- 5. read(size) = returns str
- 6. readline(size) = returns first line in str
- 7. readlines(hint) = returns list
- 8. tell() = give pointer index
- 9. seek(index) = set pointer

In [ ]:
```
dm = open('eeeehhh.txt')
# FileNotFoundError: [Errno 2] No such file or directory: 'eeeehhh.txt'
```

In [ ]:
```
dm = open('eeeehhh.txt', 'w')
# auto-matically created a file
```

- r = read
- w = write
- a = append

In [ ]:
```
# dm = open('demo.txt')
# UnsupportedOperation: not writable

dm = open('demo.txt', 'w')
dm.write('Python')
dm.write('Java')

dm.close()

# PythonJava
```

In [ ]:
```
dm = open('demo.txt', 'w')
dm.write('HTML\n' + '    ' + 'CSS')
dm.close()

# HTML
#    CSS
```

In [ ]:
```
dm = open('demo.txt', 'w')
dm.write('Python\n')
dm.writelines(['Hello\n'])
dm.writelines(['This is\n'])
dm.writelines(["Python"])
dm.close()

# Python
# Hello
# This is
# Python
```

In [ ]:
```
dm = open('demo.txt', 'a')
dm.write('Python\n')
dm.writelines(['Hello\n'])
dm.writelines(['This is\n'])
dm.writelines(["Python"])
dm.close()

# Python
# Hello
# This is
# PythonPython
# Hello
# This is
# Python
```

In [ ]:
```
dm = open('demo.txt', 'w')
dm.write('Python\n')
dm.writelines(['Hello\n'] + ['Hiee\n'])
dm.writelines(['This is\n'])
dm.writelines(["Python"])
dm.close()

# Python
# Hello
# Hiee
# This is
# Python
```

- **default mode is read.**

In [ ]:
```
rd = open('demo.txt')
data = rd.read()
print(data)
rd.close()

# Python
# Hello
# Hiee
# This is
# Python
```

In [ ]:
```
rd = open('demo.txt')
data = rd.readlines()
print(data)
rd.close()

# ['Python\n', 'Hello\n', 'Hiee\n', 'This is\n', 'Python']
```

In [ ]:
```
rd = open('demo.txt')
data = rd.readline()
print(data)
rd.close()

# Python
```

- **Count no. of lines**

In [ ]:
```
rd = open('demo.txt','r')
data = rd.readlines()
print(len(data)) # 5
```

- **Count no. of words**

In [ ]:
```
rd = open('demo.txt','r')
data = rd.read().split()
print(data)
# ['Python', 'Java', 'Py', 'Programme', 'Have', 'a', 'good', 'day', 'By
print(len(data)) # 10
```

- **take data from demo.txt & convert data into upper then store it into caps.txt**

In [ ]:
```
rd = open('demo.txt')
wr = open('caps.txt', 'w')

data = rd.read().upper()

wr.write(data)
wr.close()

# PYTHON
# JAVA
# PY PROGRAMME
# HAVE A GOOD DAY
# BYE WORLD
```

- **Find index of word entered by the user.**

In [ ]:
```
n = input("Enter Word uhh wanna to find : ")
rd = open('demo.txt')

data = rd.read()
print(data.find(n))

# Enter Word uhh wanna to find : Java
# 7
# index count including \n

# Enter Word uhh wanna to find : HTML
# -1
```

Parameters of read(), readline(), readlines()

In [16]:
```
rd = open('demo.txt')
data = rd.read(8)
print(data)
# Python
# J
```

In [ ]:
```
rd = open('demo.txt')
data = rd.readline(8)
print(data) # Python
```

In [7]:
```
rd = open('demo.txt')
data = rd.readlines(8)
print(data) # ['Python\n', 'Java\n']
```

```
['Python\n', 'Java\n']
```

In [9]:
```
rd = open('demo.txt')
data = rd.readlines(1)
print(data) # ['Python\n']
```

```
['Python\n']
```

In [12]:
```
rd = open('demo.txt')
data = rd.readlines(7)
print(data) # ['Python\n', 'Java\n']
```

```
['Python\n', 'Java\n']
```

In [19]:
```
rd = open('demo.txt')
print(rd.tell()) # 0
data = rd.read()

print(rd.tell()) # 50
d1 = rd.readline()
print(d1)

# Output : Blank
```

```
0
50
```

In [24]:
```
rd = open('demo.txt')
print(rd.read())

rd.seek(0)
print(rd.read())
```

```
Python
Java
Py Programme
Have a good day
Bye world
Python
Java
Py Programme
Have a good day
Bye world
```

In [22]:

```
rd = open('demo.txt')
print(rd.tell()) # 0

data = rd.read(10)

print(data)
    # Python
    # Jav

print(rd.tell()) # 10
d1 = rd.readline()
print(d1) # a
```

```
0
Python
Jav
10
a
```

In [30]:

```
n = int(input("Enter count : "))
cs = open('cust.txt', 'a')

for i in range(n):
    name = input("Enter Name : ")
    no = input("Enter No.: ")
    cs.write(name + ' : ' + no + '\n')

cs.close()

# Enter count : 3
# Enter Name : Romil
# Enter No.: 123
# Enter Name : Yash
# Enter No.: 456
# Enter Name : Rudra
# Enter No.: 789
```

```
Enter count : 3
Enter Name : Romil
Enter No.: 123
Enter Name : Yash
Enter No.: 456
Enter Name : Rudra
Enter No.: 789
```

In [35]:
```
cs = open('cust.txt')
data = cs.read()
print(data)
s, c = 0, 0

for i in data:
    if(i.isdigit()):
        s += int(i)
        c += 1
print('Sum :', s)
print('Average :', s/c)

# Romil : 123
# Yash : 456
# Rudra : 789

# Sum : 45
# Average : 5.0
```

```
Romil : 123
Yash : 456
Rudra : 789

Sum : 45
Average : 5.0
```

In [41]:
```
cs = open('cust.txt')
data = cs.read().split()
print(data)

for i in data:
    if(i.isalpha()):
        print(i)

# ['Romil', ':', '123', 'Yash', ':', '456', 'Rudra', ':', '789']
# Romil
# Yash
# Rudra
```

```
['Romil', ':', '123', 'Yash', ':', '456', 'Rudra', ':', '789']
Romil
Yash
Rudra
```

In [ ]:
```

```