In [2]:

```
# read an entire text file
f = open("C:/Users/chandini/OneDrive/Desktop/module3.txt","r")
print(f.read())
```

```
x read an entire text file.
x read the first n lines of a file.
x append text to a file and display the text.
x Read numbers from a file and write even and odd numbers to separate files.
x Count characters, words and lines in a text file.
x To write a list to a file.
x Given a CSV file or excel file to read it into a dataframe and display it.
x Given a dataframe, select rows based on a condition.
x Given is a dataframe showing the name, occupation, salary of people. Find
the
average salary per occupation.
x To convert Python objects into JSON strings. Print all the values.
x Write a Pandas program to read specific columns from a given excel file.
```

In [3]:

```
#read the first n lines of a file
f = open("C:/Users/chandini/OneDrive/Desktop/module3.txt", "r")
n = int(input("Enter number of lines to be printed: "))
for a in range(n):
    print(f.readline())
```

```
Enter number of lines to be printed: 3
x read an entire text file.

x read the first n lines of a file.

x append text to a file and display the text.
```

In [4]:

```
#append text to a file and display the text
f = open("C:/Users/chandini/OneDrive/Desktop/module3.txt", "a")
f.write("These are module 3 questions")
f.close()
f = open("C:/Users/chandini/OneDrive/Desktop/module3.txt", "r")
print(f.read())
```

```
x read an entire text file.
x read the first n lines of a file.
x append text to a file and display the text.
x Read numbers from a file and write even and odd numbers to separate files.
x Count characters, words and lines in a text file.
x To write a list to a file.
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x Given is a dataframe showing the name, occupation, salary of people. Find
the
average salary per occupation.
x To convert Python objects into JSON strings. Print all the values.
x Write a Pandas program to read specific columns from a given excel file. T
hese are module 3 questions
```

In [9]:

```
#Read numbers from a file and write even and odd numbers to separate files
f = open("C:/Users/chandini/OneDrive/Desktop/evenodd.txt", "r")
string = f.read()
x = string.split()
even = []
odd = []
for i in range(0, len(x)):
    x[i] = int(x[i])
for a in x:
    if a%2 == 0:
        b = str(a)
        f = open("C:/Users/chandini/OneDrive/Desktop/even.txt", "a")
        f.write(b)
        f.write(" ")
        f.close()
    else:
        b = str(a)
        f = open("C:/Users/chandini/OneDrive/Desktop/odd.txt", "a")
        f.write(b)
        f.write(" ")
        f.close()

f = open("C:/Users/chandini/OneDrive/Desktop/even.txt", "r")
print(f.read())
f = open("C:/Users/chandini/OneDrive/Desktop/odd.txt", "r")
print(f.read())
```

```
2 4 6 8 10
1 3 5 7 9
```

In [11]:

```
#Count characters, words and lines in a text file.
f = open("C:/Users/chandini/OneDrive/Desktop/module3.txt", "r")
lines_count = 0
for line in f:
    lines_count = lines_count + 1

character = 0
f = open('C:/Users/chandini/OneDrive/Desktop/module3.txt', 'r')
lines = f.readlines()
mystr = '\t'.join([line.strip() for line in lines])
for x in mystr:
    character = character + 1

word_count = str.split(mystr)

print("The file contains",lines_count,"lines,",character,"characters and",len(word_count),"
```

```
The file contains 12 lines, 683 characters and 134 words.
```

In [12]:

```
#To write a list to a file
sample = ["Prajwal","VU21CSEN0100317","CSE-CORE"]
f = open("C:/Users/chandini/OneDrive/Desktop/list to file.txt","w")
for word in sample:
    f = open("C:/Users/chandini/OneDrive/Desktop/list to file.txt","a")
    f.write(word)
    f.write(" ")
    f.close()
f = open("C:/Users/chandini/OneDrive/Desktop/list to file.txt", "r")
print(f.read())
```

```
Prajwal VU21CSEN0100317 CSE-CORE
```

In [14]:

```
import pandas as pd
req = int(input("Enter required Age:"))
record = {

 'Name': ['Arjun', 'Tej', 'Ashok', 'Swathi', 'Srija', 'Sam' ],
 'Age': [21, 19, 20, 18, 17, 21]}

dataframe = pd.DataFrame(record, columns = ['Name', 'Age'])
rslt_df = dataframe[dataframe['Age'] >= req]

print(rslt_df)
```

```
Enter required Age:17
     Name  Age
0   Arjun   21
1     Tej   19
2   Ashok   20
3  Swathi   18
4   Srija   17
5     Sam   21
```

In [15]:

```
import pandas as pd
record = {
 'Name': ['Arjun', 'Tej', 'Ashok', 'Swathi', 'Srija', 'Sam'],
 'Occupation': ['Polic', 'Lawyer','Doctor', 'Software engineer', 'Teacher', 'Youtuber'],
 'Salary': [50000,120000,40000,84000,30000,35000],}

dataframe = pd.DataFrame(record, columns = ['Name', 'Occupation', 'Salary'])
rslt_df = dataframe['Salary']
mean = dataframe["Salary"].mean()
print("The average salary is",mean)
```

```
The average salary is 59833.333333333336
```

In [16]:

```
import json
x = {"name": "PRajwal","age": 18 ,"city": "Vizag"}
y = json.dumps(x)
print(y)
```

```
{"name": "PRajwal", "age": 18, "city": "Vizag"}
```

In [21]:

```
import pandas as pd
columns = [1]

df = pd.read_csv("C:/Users/chandini/Downloads/idk.csv",usecols  = columns)
print(df)
```

```
       Name
0     Ashok
1       Raj
2    Aditya
3    Vishnu
4       Ram
5   Praveen
6     Jyoti
7     Kiran
8      Maya
9    Sheela
10    Lilly
11   Jairam
12  Prakash
13   Lokesh
14  Abhiram
15   Sachin
16     Sita
17   Bhagat
18  Jayanth
19  Kishore
```