In [2]:	<pre>import pandas as pd print(pdversion) 1.3.4</pre>
In [4]:	<pre>###1Reading a text from file### def file_read(fname): txt = open(fname)</pre>
	<pre>file_read('D:\\v2.txt') a piece of writing in which the expression of feelings and ideas is given intensity by particular attention to</pre>
In []:	<pre>diction (sometimes involving rhyme), rhythm, and imagery. ###Read the first n lines of a file. ### i=int(input()) a=('D:\\text2.txt') b=open(a,'r') for x in range(i): print(b.readline())</pre>
In [16]:	<pre>###Append text to a file and display the text### def file_read(fname): from itertools import islice with open(fname, "w") as myfile: myfile.write("CSE Exercises\n") myfile.write("Module 3 Exercises") txt = open(fname) print(txt.read()) file_read('D:\\v2.txt')</pre>
In [62]:	<pre>CSE Exercises Module 3 Exercises ###Read numbers from a file and write even and odd numbers to separate files.### a=('D:\\text3.txt') b=open(a,'r') e=open('Even.txt','w') 0=open('Odd.txt','w') 0.write('Even:\n') 0.write('Even:\n') for i in b: if int(i)%2==0: e=open('Even.txt','a') e.write(i) elif int(i)%2!=0: o=open('Odd.txt','a') 0.write(i) e.close() e=open('Even.txt','r') print(e.read()) e.close() 0=open('Odd.txt','r') print(o.read()) o.close()</pre>
	Even: 2 4 6 8 0 10 12 124 46 58 Odd: 1 3 5 7 9 11 13 435 5 5 457 7 7 57
In [60]:	<pre>###Count characters, words and lines in a text file### file = open("D:\\h2.txt", "r") numberoflines = 0 numberofwords = 0 numberofcharacters = 0 for line in file: line = line.strip("\n") ##won't count \n as character words = line.split() numberoflines += 1 numberofwords += len(words) numberofcharacters += len(line) file.close() print("lines:", numberoflines, "words:", numberofwords, "characters:", numberofcharacters) lines: 5 words: 47 characters: 244</pre>
In [32]:	<pre>###To write a list to a file.### names = ["Pavan","18","Gitam"] with open(r'D:\\v2.txt', 'w') as fp: #write mode for item in names: fp.write("%s\n" % item) # write each item on a new line print('Done') def file_read(fname): txt = open(fname) print(txt.read()) file_read('D:\\v2.txt')</pre> Done Pavan 18 Gitam
In [44]:	<pre>###Given a CSV file or excel file to read it into a dataframe and display it.### import pandas as pd data = pd.read_csv("D:\\Book1.csv") data.head() data.head()</pre>
Out[44]:	S.no Name Age Gender PH.No Address 0 1 Pavan 18 M 499394939 Visakhapatanam,Maddilapalem 1 2 Sugreev 18 M 323232344 Visakhapatanam,Hb colony 2 3 Aditya 19 M 234234342 Visakhapatanam,CMR 3 4 Tushar 18 M 423423423 Visakhapatanam,Gajuwaka 5 6 Heamanth 19 M 546546546 Visakhapatanam,Sethamadhara 6 7 Harsha 18 M 846849849 Visakhapatanam,Pendurthy 7 8 Saketh 19 M 654646498 Visakhapatanam,Muralinagar 8 9 Nikhilesh 19 M 564654664 Visakhapatanam,Sethamadhara 9 10 Harshith 18 M 976543213 Visakhapatanam,Sethamadhara
In [43]:	<pre>###Given a dataframe, select rows based on a condition.### import pandas as pd import numpy as np df = pd.DataFrame() df['Name'] = ['John', 'Doe', 'Bill','Jim','Harry','Ben'] df['TotalMarks'] = [82, 38, 63,22,55,40] df['Grade'] = ['A', 'E', 'B','E','C','D'] df['Promoted'] = [True, False,True,False,True,True] df[:7]</pre>
Out[43]:	Name TotalMarks Grade Promoted 0 John 82 A True 1 Doe 38 E False 2 Bill 63 B True 3 Jim 22 E False 4 Harry 55 C True 5 Ben 40 D True
In []:	<pre>###Given is a dataframe showing the name, occupation, salary of people. Find the average salary per occupation. import pandas as pd employees = pd.read_csv(r"D:\\Book1.csv") departments = pd.read_csv(r"D:\\Book1.csv") jobs = pd.read_csv(r"D:\\Book1.csv") print("First name</pre>
In [57]:	<pre>###To convert Python objects into JSON strings. Print all the values.### import json pythonobj = { "name": "Pavan", "class":"13", "age": 18 } print(type(pythonobj)) jdata = json.dumps(pythonobj) print(jdata) <class 'dict'=""> {"name": "Pavan", "class": "13", "age": 18}</class></pre>
In [59]:	<pre>###Write a Pandas program to read specific columns from a given excel file. ### import pandas as pd import numpy as np cols = [1, 2, 4] df = pd.read_excel('D:\\Book1.xlsx', usecols=cols) df</pre>
Out[59]:	Name Age PH.No 0 Pavan 18 499394939 1 Sugreev 18 323232344 2 Aditya 19 234234342 3 Tushar 18 423423423 4 Sanjay 19 246854726 5 Heamanth 19 546546546 6 Harsha 18 846849849 7 Saketh 19 6546546646 9 Harshith 18 976543213