ADVANCE PYTHON FILE OPERATION

	File operation				
Sr.No.	Syntax/command	Output	Remarks		
	l = [1,2,3,4,5]		If you pass next() command directly on		
1	b = iter(l)	1	I it will give error saying list object is		
	next(b)		not a iterator. Using iter() command		
	next(b)	2	you can convert the list and perform		
	next(b)	3	next() command.		
	next(b)	4			
	next(b)	5			
	next(b)	Error	It will give an error saying list object is not iterable.		
	def square_func(i):		when you enter commands within		
2	x = [j*j for j in range(i)]		square brackets to directly convert		
۷	print(x)		data to a list - then it is called "List		
			comprehension"		
	def square_func1(i):		Return command will give the output		
3	x = [j*j  for  j  in range(i)]	[0, 1, 4, 9]	of x directly.		
	return x				
4	square_func1(4)		Mhanaa if way nambaa it with viola		
4	def square_func2(i):		Whereas if you replace it with yield		
	x = [j*j for j in range(i)]	Error	inplace of return it will not give the output directly.		
	square_func2(4) next(square_func2(4))	EIIOI	Yield command will make the entire		
5		[0, 1, 4, 9]	data available as a iterator.		
	def fib_series1(n):		data available as a recrator.		
	a = 1				
	b = 1				
_	l = []				
6	for i in range(n):	[1, 1, 2, 3, 5, 8, 13]	Function to get fibonacci numbers		
	l.append(a)				
	a,b = b,a+b				
	return l				
	fib_series1(7)		Dadona formation on a second		
7	from functools import reduce	-	Reduce function uses successive a,b values to calculate the sum() of the		
	reduce(lambda a , b : a+b , l)		iterable. Apply a function of two		
			arguments cumulatively to the items of		
		20			
		36	a sequence, from left to right, so as to reduce the sequence to a single value.		
			-		
			For example, reduce(lambda x, y: x+y,		
			[1, 2, 3, 4, 5]) calculates ((((1+2)+3)+4)+5)		
	list(filter(lambda x : x%2 ==0, l))		111111111111111111111111111111111111111		
8	0,1,,	[2, 4, 6, 8]	Filter function will extract the data		
		[2, 1, 3, 5]	from iterable w.r.t function mentioned.		
	def even_func(n):		Alternate to above code. Filter function		
9	if n%2 == 0:	[2, 4, 6, 8]	works on the condition of True/False		
-	return True				
	list(filter(even_func,l))	1			
	<u> </u>	1	1		

ADVANCE PYTHON FILE OPERATION

	import urllib.request	Download data
	# url = 'https://cf-courses-	
10	data.s3.us.cloud-object-	
	storage.appdomain.cloud/IBMDevelop	
	erSkillsNetwork-PY0101EN-	
	SkillsNetwork/labs/Module%204/data	
	/example1.txt'	
	# filename = 'Example1.txt'	
	# urllib.request.urlretrieve(url,	
	filename)	
	from pyodide.http import pyfetch	
	import pandas as pd	
	filename = "https://cf-courses-	
	data.s3.us.cloud-object-	
	storage.appdomain.cloud/IBMDevelop	
	erSkillsNetwork-PY0101EN-	
	SkillsNetwork/labs/Module%204/data	
	/example1.txt"	
	async def download(url, filename):	
	response = await pyfetch(url)	
	if response.status == 200:	
	with open(filename, "wb") as f:	
	f.write(await response.bytes())	
	await download(filename,	
	"Example1.txt")	
	with open(example1, "r") as file1:	A Better Way to Open a File is using
	FileContent = file1.read()	the with statement. The code will run
11	print(FileContent)	everything in the indent block then
11		close the file object.
	with open(example1, "r") as file1:	Once the method .read(4) is called the
12	print(file1.read(4))	first 4 characters are printed. If we call
	print(file1.read(4))	the method again, the next 4
	print(file1.read(7))	characters are printed. And so on.
	print(file1.read(15))	
13	with open(example1, "r") as file1:	
	print(file1.readline(20)) # does not	We can also pass an argument to
	read past the end of line	readline() to specify the number of
	print(file1.readline(20)) # Returns	charecters we want to read in each line
	the 20 chars of next line	
	with open(example1,"r") as file1:	Iterate through the lines
14	i = 0;	
	for line in file1:	
	print("Iteration", str(i), ": ", line)	
	i = i + 1	
	<u> </u>	

ADVANCE PYTHON FILE OPERATION

Lines = ["This is line A\n", "This is line	With \n it will write each sent on a new
B\n", "This is line C\n"]	line
with open('Example2.txt', 'w') as	
writefile:	
for line in Lines:	
print(line)	
writefile.write(line)	
with open('Example2.txt','r') as	It is used to copy data from readfile to
readfile:	write file
with open('Example3.txt','w') as	
writefile:	
for line in readfile:	
writefile.write(line)	