PRACTICAL NO 2

a.

```
import requests
import pandas as pd
# Reading from Web (.txt)
web_url_txt = "https://example-files.online-
convert.com/document/txt/example.txt"
response_txt = requests.get(web_url_txt)
web_data_txt = response_txt.text
# Displaying contents from Web (.txt)
print("Contents of Web (.txt):")
print(web_data_txt)
print("\n" + "-"*50 + "\n")  # Separating sections
# Reading from Web (.csv)
web_url_csv = "https://calmcode-datasette.fly.dev/calmcode/sleep.csv"
response_csv = requests.get(web_url_csv)
web_data_csv = response_csv.text
# Displaying contents from Web (.csv)
print("Contents of Web (.csv):")
print(web_data_csv)
print("\n" + "-"*50 + "\n")  # Separating sections
# Reading from Disk (.txt)
local_txt_file_path = "python.txt"
with open(local_txt_file_path, "r") as local_txt_file:
    local_txt_data = local_txt_file.read()
# Displaying contents from Disk (.txt)
print("Contents of Disk (.txt):")
print(local_txt_data)
print("\n" + "-"*50 + "\n")  # Separating sections
# Reading from Disk (.csv)
local_csv_file_path = "english_1grams.csv"
df = pd.read_csv(local_csv_file_path)
# Displaying contents from Disk (.csv)
print("Contents of Disk (.csv):")
print(df)


# Writing to a Text File (.txt)
text_data = ''' Writing to a file in Python
There are two ways to write in a file:
a)Using write()
b)Using writelines()
# Writing to a Python Text File Using write()
write() : Inserts the string str1 in a single line in the text file.
File_object.write(str1) '''
txt_file_path = "sample.txt"
with open(txt_file_path, "w") as txt_file:
    txt_file.write(text_data)
# Writing to a CSV File (.csv)
import csv
csv_data = [
    ["Name", "Age", "City"],
    ["Sam", 25, "New York"],
    ["Adam", 30, "San Francisco"],
    ["Shane", 22, "Chicago"] ]
csv_file_path = "sample.csv"
with open(csv_file_path, "w", newline="") as csv_file:
    csv_writer = csv.writer(csv_file)
    csv_writer.writerows(csv_data)
```

Output :

Contents of Web (.txt):

Example content:

The names "John Doe" for males, "Jane Doe" or "Jane Roe" for females, or "Jonnie Doe" and "Janie Doe" for children, or just "Doe" non-gender-specifically are used as placeholder names for a party whose true identity is unknown or must be withheld in a legal action, case, or discussion. The names are also used to refer to acorpse or hospital patient whose identity is unknown. This practice is widely used in th e United States and Canada, but is rarely used in other English-speaking countries including the United Kingdom itself, from where the use of "John Doe" in a legal context originates. The names Joe Bloggs o r John Smith are used in the UK instead, as well as in Australia and New Zealand.

John Doe is sometimes used to refer to a typical male in other contexts as well, in a similar manner to John Q. Public, known in Great Britain as Joe Public, John Smith or Joe Bloggs. For example, the first name listed on a form is often John Doe, along with a fictional address or other fictional information to provide an example of how to fill in the form. The name is also used frequently in popular culture, for example in the Frank Capra film Meet John Doe. John Doe was also the name of a 2002 American television series.

```
Contents of Web (.csv):
rowid,id,gpa,sleep,passed_unit_tests,passed_asserts,tackled_user_stories
1,1,23,normal,5,6,5
2,2,24,normal,1,3,2
3,3,23,normal,7,6,5
4,4,28,normal,5,8,4
5,5,25,normal,4,5,3
6,7,23,normal,1,4,2
7,8,28,normal,4,5,3
8,9,23,normal,4,5,3
9,10,22,normal,4,5,3
10,11,26,normal,1,6,2
11,12,24,normal,4,4,3
12,13,22,normal,4,5,3
13,14,26,normal,1,3,2
14,15,23,normal,1,3,2
15,16,23,normal,0,4,0
16,17,23,normal,0,2,1
17,18,25,normal,7,7,5
18,19,22,normal,4,5,3
19,20,24,normal,1,8,2
20,21,28,normal,0,5,1
21,22,20,normal,3,5,3
22,23,24,deprived,1,2,2
23,24,26,deprived,7,6,5
24,25,24,deprived,4,2,3
25,29,24,deprived,0,4,1
26,30,22,deprived,1,4,2
27,31,25,deprived,1,3,2
28,32,27,deprived,1,3,2
29,34,25,deprived,1,4,2
```

```
Contents of Disk (.txt):
What is Python?
Python is a popular programming language. It was created by Guido van Rossum, and released in 1991.

It is used for:

web development (server-side),
software development,
mathematics,
system scripting.
```

```
Contents of Disk (.csv):
   unigram       freq
0        e  529117365
1        t  390965105
2        a  374061888
3        o  326627740
4        i  320410057
5        n  313720540
6        s  294300210
7        r  277000841
8        h  216768975
9        l  183996130
10       d  169330528
11       c  138416451
12       u  117295780
13       m  110504544
14       f   95422055
15       g   91258980
16       p   90376747
17       w   79843664
18       y   75294515
19       b   70195826
20       v   46337161
```

- Output of # Writing to a Text File (.txt) :

1.sample.txt

```
Writing to a file in Python
There are two ways to write in a file:
a)Using write()
b)Using writelines()
# Writing to a Python Text File Using write()
write() : Inserts the string str1 in a single line in the text
file.
File_object.write(str1)
```

- Output of # Writing to a CSV File (.csv) :

2.sample.csv

```
Name,Age,City
Sam,25,New York
Adam,30,San Francisco
Shane,22,Chicago
```

b.

```
import pandas as pd
# Reading Excel data sheet
excel_file_path = "Formula_Excel_Template.xlsx"
df = pd.read_excel(excel_file_path)
# Displaying contents of the DataFrame
print("Contents of Excel data sheet:")
print(df)
```

Output :

```
Contents of Excel data sheet:
   EmployeeID FirstName    LastName  Age  Gender           JobTitle  Salary  StartDate    EndDate  Max  Min
0        1001       Jim     Halpert   30    Male           Salesman   45000 2001-11-02 2015-09-06  NaN  NaN
1        1002       Pam     Beasley   30  Female       Receptionist   36000 1999-10-03 2015-10-10  NaN  NaN
2        1003    Dwight     Schrute   29    Male           Salesman   63000 2000-07-04 2017-09-08  NaN  NaN
3        1004    Angela      Martin   31  Female         Accountant   47000 2000-01-05 2015-12-03  NaN  NaN
4        1005      Toby  Flenderson   32    Male                 HR   50000 2001-05-06 2017-08-30  NaN  NaN
5        1006   Michael       Scott   35    Male   Regional Manager   65000 1995-12-07 2013-09-11  NaN  NaN
6        1007  Meredith      Palmer   32  Female  Supplier Relations   41000 2003-11-08 2013-10-04  NaN  NaN
7        1008   Stanley      Hudson   38    Male           Salesman   48000 2002-06-09 2015-04-22  NaN  NaN
8        1009     Kevin      Malone   31    Male         Accountant   42000 2003-08-10 2011-09-14  NaN  NaN
```