1. Add the current date to the text file today.txt as a string.

ANSWER.

from datetime import datetime

current\_date = datetime.now().strftime('%Y-%m-%d')

with open('today.txt', 'w') as file:

file.write(current\_date)

2. Read the text file today.txt into the string today\_string

ANSWER.

with open('today.txt', 'r') as file:

today\_string = file.read()

print(today\_string)

3. Parse the date from today\_string.

ANSWER.

from datetime import datetime

parsed\_date = datetime.strptime(today\_string.strip(), '%Y-%m-%d')

print(parsed\_date)

4. List the files in your current directory

ANSWER.

Files in the current directory:

-1.14-windows.xml

.anaconda

.conda

.condarc

.continuum

.dbclient

.gitconfig

.idlerc

.ipynb\_checkpoints

.ipython

.jupyter

.lesshst

.matplotlib

.ms-ad

.quokka

.thumbnails

.viminfo

.virtual\_documents

.vscode

.wallaby

ADA boost.ipynb

adaboost.ipynb

anaconda3

AppData

Application Data

Assignment.ipynb

bagging.ipynb

cleaned\_google\_playstore\_data.csv

clustering.ipynb

Contacts

Cookies

datacleaning.ipynb

Desktop

Documents

Downloads

EDA.ipynb

exception handling.ipynb

Favorites

Feature\_engineering\_or\_preprocessing .ipynb

file.txt

filehandling and logging.ipynb

first notebook.ipynb

Funtion.ipynb

game\_top\_reviews.csv

Links

Local Settings

mlbootcamp.csv

Music

My Documents

myfile.npz

myfirstlog.txt

mysecondlog.txt

NetHood

newfile.txt

NTUSER.DAT

ntuser.dat.LOG1

ntuser.dat.LOG2

NTUSER.DAT{473bf4e3-447f-11ed-a352-e4d5a3e6c102}.TM.blf

NTUSER.DAT{473bf4e3-447f-11ed-a352-e4d5a3e6c102}.TMContainer00000000000000000001.regtrans-ms

NTUSER.DAT{473bf4e3-447f-11ed-a352-e4d5a3e6c102}.TMContainer00000000000000000002.regtrans-ms

ntuser.ini

numpy.ipynb

OneDrive

opps.ipynb

outfile.npy

pandas.ipynb

PCA.ipynb

Pictures

Ploting.ipynb

Postman

practice.ipynb

PrintHood

Randomforest.ipynb

Recent

Saved Games

Searches

SendTo

Start Menu

statistic2.ipynb

statistics.ipynb

Sti\_Trace.log

Templates

test.csv

test.log

test.txt

test1.tsv

test2.txt

time\_series.ipynb

Videos

webscraping.ipynb

5. Create a list of all of the files in your parent directory (minimum five files should be available).

ANSWER.

['Abhishek Arya', 'All Users', 'ARYAN', 'aryan.LAPTOP-NRBE7OIJ', 'aryan.LAPTOP-NRBE7OIJ.000', 'Default', 'Default User', 'desktop.ini', 'Public', 'Rajbir Singh', 'sunid']

6. Use multiprocessing to create three separate processes. Make each one wait a random number of seconds between one and five, print the current time, and then exit.

ANSWER.

import multiprocessing

import time

import random

from datetime import datetime

def worker():

# Generate a random sleep time between 1 and 5 seconds

sleep\_time = random.randint(1, 5)

time.sleep(sleep\_time)

current\_time = datetime.now().strftime('%H:%M:%S')

print(f"Process {multiprocessing.current\_process().name} - Current time: {current\_time}")

if \_\_name\_\_ == '\_\_main\_\_':

processes = []

for i in range(3):

p = multiprocessing.Process(target=worker, name=f"Worker-{i+1}")

processes.append(p)

p.start()

for p in processes:

p.join()

7. Create a date object of your day of birth.

ANSWER.

from datetime import date

birth\_date = date(2000, 1, 1)

print("Date of Birth:", birth\_date)

8. What day of the week was your day of birth?

ANSWER.

from datetime import date

birth\_date = date(2000, 1, 1)

day\_of\_week = birth\_date.strftime('%A')

print("Day of the Week:", day\_of\_week)

9. When will you be (or when were you) 10,000 days old?

ANSWER.

from datetime import date, timedelta

birth\_date = date(2000, 1, 1)

ten\_thousand\_days\_date = birth\_date + timedelta(days=10000)

print("Date when you will be (or were) 10,000 days old:", ten\_thousand\_days\_date)