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

Ans.

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

file.write(datetime.datetime.now().strftime('%Y-%m-%d'))

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

Ans.

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

today\_string = file.read()

3. Parse the date from today\_string.

print(datetime.datetime.strptime(today\_string, '%Y-%m-%d'))

4. List the files in your current directory

import os

os.listdir()

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

parent\_directory = os.path.dirname(os.getcwd())

os.listdir(parent\_directory)

#OUTPUT : ['a = True.py', 'Assignment 20', 'Assignment\_10.docx', 'Assignment\_11.docx', 'Assignment\_12.docx', 'Assignment\_13 (1).docx', 'Assignment\_14.docx', 'Assignment\_15.docx', 'Assignment\_16.docx', 'Assignment\_17.docx', 'Assignment\_18.docx', 'Assignment\_2.docx', 'Assignment\_22.docx', 'Assignment\_23.docx', 'Assignment\_24.docx', 'Assignment\_25.docx', 'Assignment\_3.docx', 'Assignment\_4.docx', 'Assignment\_5.docx', 'Assignment\_6.docx', 'Assignment\_7.docx', 'Assignment\_8.docx', 'Assignment\_9.docx', 'Programming\_Assingment1.docx', 'Programming\_Assingment2.docx', 'Programming\_Assingment4.docx', 'Programming\_Assingment5.docx', 'Untitled-1.ipynb']

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.

import multiprocessing

import random

import time

from datetime import datetime

def worker\_process(process\_num):

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

print(f"Process {process\_num} will wait for {wait\_time} seconds.")

time.sleep(wait\_time)

print(f"Process {process\_num} finished at {datetime.now()}")

if \_\_name\_\_ == "\_\_main\_\_":

num\_processes = 3

processes = []

for i in range(num\_processes):

process = multiprocessing.Process(target=worker\_process, args=(i,))

processes.append(process)

for process in processes:

process.start()

for process in processes:

process.join()

print("All processes have finished.")

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

birthday = date(1998,3,3)

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

birthday.strftime('%A')

#OUTPUT : ‘Tuesday’

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

Ans .2025-07-19

Code: print(birthday+timedelta(days=10000))