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

from datetime import date

current\_date = date.today().strftime("%Y-%m-%d")

with open("today.txt", "a") as file:

file.write(current\_date)

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

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

today\_string = file.read()

3. Parse the date from today\_string.

from datetime import datetime

date\_format = "%Y-%m-%d"

parsed\_date = datetime.strptime(today\_string, date\_format).date()

4. List the files in your current directory

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

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():

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

time.sleep(wait\_time)

current\_time = datetime.now().strftime("%Y-%m-%d %H:%M:%S")

print("Current Time:", current\_time)

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

processes = []

for \_ in range(3):

p = multiprocessing.Process(target=worker)

processes.append(p)

p.start()

for p in processes:

p.join()

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

from datetime import datetime

date\_of\_birth = datetime.strptime("01/03/2000", "%d/%m/%Y").date()

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

from datetime import datetime

date\_of\_birth = datetime.strptime("01/03/2000", "%m/%d/%Y").date()

day\_of\_week = date\_of\_birth.weekday()

print(day\_of\_week) # Output: 0 (Monday)

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

from datetime import datetime, timedelta

date\_of\_birth = datetime.strptime("01/03/2000", "%m/%d/%Y").date()

target\_date = date\_of\_birth + timedelta(days=10000)

print(target\_date.strftime("%m/%d/%Y"))