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

from datetime import datetime

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

with open("today.txt", "w") 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.**

parsed\_date = datetime.strptime(today\_string, "%Y-%m-%d %H:%M:%S")

**4. List the files in your current directory**

import os

files\_in\_current\_directory = os.listdir()

print(files\_in\_current\_directory)

**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.path.abspath(\_\_file\_\_))

files\_in\_parent\_directory = os.listdir(parent\_directory)

print(files\_in\_parent\_directory[:5]) # Print the first five files

**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 time

import random

from datetime import datetime

def process\_function():

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

time.sleep(wait\_time)

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

print(f"Process finished at {current\_time}")

processes = []

for \_ in range(3):

process = multiprocessing.Process(target=process\_function)

processes.append(process)

process.start()

for process in processes:

process.join()

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

from datetime import date

birth\_date = date(year=1990, month=5, day=15) # Replace with your actual birthdate

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

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

print(f"Day of the week of birth: {day\_of\_week}")

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

from datetime import timedelta

age\_10000\_days = birth\_date + timedelta(days=10000)

print(f"You will be (or were) 10,000 days old on: {age\_10000\_days}")