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

**Ans**:

from datetime import datetime

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

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

file.write(current\_date)

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

**Ans**:

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

today\_string = file.read()

1. Parse the date from today\_string.

**Ans**:

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

1. List the files in your current directory

**Ans**:

import os

current\_directory = os.getcwd()

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

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

**Ans**:

parent\_directory = os.path.abspath(os.path.join(current\_directory, os.pardir))

files\_in\_parent = os.listdir(parent\_directory)[:5]

1. 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.

**Ans**:

import multiprocessing

import time

import random

def print\_current\_time():

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

time.sleep(wait\_time)

current\_time = time.strftime("%H:%M:%S", time.localtime())

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

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

processes = [multiprocessing.Process(target=print\_current\_time) for \_ in range(3)]

for process in processes:

process.start()

for process in processes:

process.join()

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

**Ans**:

dob = datetime(year=1999, month=1, day=11)

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

**Ans**:

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

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

**Ans**:

ten\_thousand\_days\_old = dob + timedelta(days=10000)