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

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

3. Parse the date from today\_string.

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.

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

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

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

Answer:

1.

from datetime import date

today = date.today().strftime('%Y-%m-%d')

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

file.write(today)

2.

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

today\_string = file.read().strip()

3.

from datetime import datetime

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

4.

import os

files = os.listdir('.')

for file in files:

print(file)

5.

import os

files = os.listdir('..')

for file in files:

print(file)

6.

import multiprocessing

import random

import time

from datetime import datetime

def print\_time():

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

time.sleep(wait\_time)

now = datetime.now()

print("Current time:", now)

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

for i in range(3):

process = multiprocessing.Process(target=print\_time)

process.start()

7.

from datetime import date

birthday = date(2000, 1, 1) # Change to your actual birthday

8.

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

print(day\_of\_week)

9.

from datetime import timedelta

ten\_thousand\_days = timedelta(days=10000)

future\_date = birthday + ten\_thousand\_days

print(future\_date)

This will print the date that is 10,000 days after your birthday. If you want to find out how many days until you will be 10,000 days old, you can subtract the current date from the future date:

today = date.today()

days\_until = (future\_date - today).days

print(days\_until)