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

import datetime

from datetime import date

now = date.today()

cur\_date = now.isoformat()

cur\_date

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

    file.write(cur\_date)

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

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

    today\_string = file.read()

today\_string

3. Parse the date from today\_string.

from datetime import datetime

format = '%Y-%m-%d'

datetime.strptime(today\_string,format)

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).

import os

os.listdir('./../')

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

def printsec(seconds):

    from datetime import datetime

    from time import sleep

    sleep(seconds)

    print('wait', seconds, 'seconds, time is', datetime.utcnow())

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

    import random

    for n in range(3):

        seconds = random.random(1,5)

        proc = multiprocessing.Process(target=printsec, args=(seconds,))

        proc.start()

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

my\_dob = date(1986,4,25)

my\_dob

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

my\_dob.weekday()

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

from datetime import timedelta

d = my\_dob + timedelta(days=10000)

d