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

from datetime import datetime

# Get current date

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

# Write current date to today.txt

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

file.write(current\_date)

```

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

# Read today.txt into today\_string

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

today\_string = file.read()

print(today\_string)

```

3. Parse the date from today\_string.

# Parse date from today\_string

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

print(parsed\_date)

```

4. List the files in your current directory.

import os

# List files in current directory

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).

# List files in parent directory

parent\_directory = os.path.abspath('..')

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

print(files\_in\_parent\_directory)

```

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

def print\_current\_time():

time.sleep(random.randint(1, 5))

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

print(f'Current time: {current\_time}')

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

processes = []

for \_ in range(3):

p = multiprocessing.Process(target=print\_current\_time)

p.start()

processes.append(p)

for p in processes:

p.join()

```

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

from datetime import date

# Replace 'YYYY-MM-DD' with your actual date of birth

birth\_date = date(YYYY, MM, DD)

print(birth\_date)

```

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

# Get the day of the week for your birth date

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

print(day\_of\_week)

```

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

from datetime import timedelta

# Calculate the date 10,000 days from your birth date

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

print(ten\_thousand\_days\_old)

```

Replace 'YYYY', 'MM', and 'DD' with your actual year, month, and day of birth in task 7.