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

python

Copy code

from datetime import datetime

# Get current date

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

# Write to file

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

file.write(current\_date + "\n")

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

python

Copy code

# Read from file

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

today\_string = file.read()

print(today\_string)

### 3. Parse the date from today\_string

python

Copy code

from datetime import datetime

# Assuming the date is the last line of the file

date\_str = today\_string.strip().split('\n')[-1]

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

print(parsed\_date)

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

python

Copy code

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)

python

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parent\_directory\_files = os.listdir('..')

print(parent\_directory\_files[:5])

### 6. Use multiprocessing to create three separate processes

python

Copy code

import multiprocessing

import time

import random

from datetime import datetime

def worker():

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

time.sleep(sleep\_time)

print(f"Current time: {datetime.now()}")

processes = []

for \_ in range(3):

p = multiprocessing.Process(target=worker)

p.start()

processes.append(p)

for p in processes:

p.join()

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

python

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from datetime import datetime

# Replace with your actual birth date

day\_of\_birth = datetime(year=1990, month=1, day=1)

print(day\_of\_birth)

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

python

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# Assuming day\_of\_birth is defined

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

print(day\_of\_week)

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

python

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from datetime import timedelta

ten\_thousand\_days = day\_of\_birth + timedelta(days=10000)

print(ten\_thousand\_days)