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

Ans-Code to add the current date to the text file today.txt as a string:

from datetime import date

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

f.write(str(date.today()))

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

Ans-Code to read the text file today.txt into the string today\_string:

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

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

print(today\_string)

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

Ans-Code to parse the date from today\_string:

from datetime import datetime

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

print(today)

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

Ans-Code to list the files in the current directory:

import os

for filename in os.listdir('.'):

print(filename)

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

Ans-Code to create a list of all files in the parent directory:

import os

parent\_dir = os.path.abspath(os.path.join(os.getcwd(), os.pardir))

files = os.listdir(parent\_dir)

print(files)

**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.**

Ans-Code to use multiprocessing to create three separate processes that wait a random number of seconds between one and five, print the current time, and then exit:

import multiprocessing

import random

import time

from datetime import datetime

def worker():

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

time.sleep(sleep\_time)

print(f'Process {multiprocessing.current\_process().name} waited for {sleep\_time} seconds and ended at {datetime.now()}')

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

for i in range(3):

p = multiprocessing.Process(target=worker)

p.start()

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

Ans-Code to create a date object of your day of birth:

from datetime import date

birthday = date(2000, 1, 1) # Replace with your actual birthday

print(birthday)

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

Ans-Code to determine the day of the week of your day of birth:

from datetime import date

birthday = date(2000, 1, 1) # Replace with your actual birthday

weekday = birthday.strftime('%A')

print(weekday)

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

Ans-Code to determine when you will be (or when were you) 10,000 days old:

from datetime import date, timedelta

birthday = date(2000, 1, 1) # Replace with your actual birthday

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

future\_date = birthday + ten\_thousand\_days

print(future\_date)