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

- from datetime import datetime as dt

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

f.write(str(dt.today()))

f.close()

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

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

today\_string=f.read()

f.close()

print(today\_string)

3. Parse the date from today\_string.

--> dt.strptime(today\_string,"%Y-%m-%d %H:%M:%S.%f")

4. List the files in your current directory.

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We can use ‘ls’ or OS module as follows.

import os

# Get the current directory

current\_directory = os.getcwd()

# List files in the current directory

files = os.listdir(current\_directory)

for file in files:

print(file)

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

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Import os

current\_directory = os.getcwd()

# Get the parent directory

parent\_directory = os.path.dirname(current\_directory)

# List files in the parent directory

files = os.listdir(parent\_directory)

for file in files:

print(file)

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.

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import multiprocessing

import time

import random

def waiting\_queue():

print('x')

wait=random.randint(1,5)

time.sleep(wait)

print('x')

print(f'{multiprocessing.current\_process.name()} served at {str(dt.now())} ')

tic = time.time()

p1 = multiprocessing.Process(target = waiting\_queue)

p2 = multiprocessing.Process(target = waiting\_queue)

p3 = multiprocessing.Process(target = waiting\_queue)

p1.start()

p2.start()

p3.start()

p1.join()

p2.join()

p3.join()

toc = time.time()

print(f'{str(dt.now())}')

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

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from datetime import date

date(1993,1,15)

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

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day\_of\_week=date(1993,1,15).weekday()

days = ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday']

day\_name = days[day\_of\_week]

print(‘day\_name’)

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

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from datetime import date,timedelta

birth\_day=date(1993,1,15)

age10000 = birth\_day + timedelta(days=10000)

print(age)