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

Answer:

from datetime import date

now = date.today()

string = now.isoformat()

with open('today', 'wt') as output:

print(string, file=output)

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

Answer:

with open('today' ,'rt') as input:

today\_string = input.read()

today\_string

'2023-08-14'

3. Parse the date from today\_string.

Answer:

fmt = '%Y-%m-%d\n'

datetime.strpttime(time\_string, fmt)

datetime.datetime(2021, 0, 5, 0, 6)

4. List the files in your current directory

Answer:

To 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).

Answer:

To list of all of the files in your parent directory

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.

Answer:

import multiprocessing

def now(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()

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

proc.start()

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

Answer:

import datetime

my\_day = datetime.date(1999, 10, 18)

print(my\_day)

1999-10-18

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

Answer:

import datetime

my\_day = datetime.date(1999, 10, 18)

weekday = my\_day.strftime("%A")

print(weekday)

Monday

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

Answer:

from datetime import timedelta

day = my\_day + timedelta(days=10000)

Print(day)

datetime.date(2027, 3, 5)