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

from datetime import date

with open("today.txt","wt") as fout:

now=date.today()

now\_str=now.isoformat()

print(now\_str,file=fout)

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

with open("today.txt","rt") as input:

today\_string=input.read()

today\_string

'2020-01-28\n'

1. Parse the date from today\_string.

import time

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

time.strptime(today\_string,fmt)

time.struct\_time(tm\_year=2020, tm\_mon=1, tm\_mday=28, tm\_hour=0, tm\_min=0, tm\_sec=0, tm\_wday=1, tm\_yday=28, tm\_isdst=-1)

1. List the files in your current directory

import os

os.listdir(".")

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

import glob

glob.glob("m\*")

['mcintyre']

1. 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 os

def do\_this(what):

whoami(what)

def whoami(what):

print("Process %s says: %s" % (os.getpid(), what))

if \_\_name\_\_ == "\_\_main\_\_":

whoami("I'm the main program")

for n in range(5):

p = multiprocessing.Process(target=do\_this, args=("I'm function %s" % n,))

p.start()

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

from datetime import date

birthday=date(1994, 1, 1)

birthday

datetime.date(1994, 1, 1)

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

import time

from datetime import date

birthday=date(1994, 1, 1)

fmt="%Y-%m-%d-%A"

date.strftime(birthday,fmt)

'1994-01-01-Saturday'

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

from datetime import timedelta

day=timedelta(days=10000)

A=birthday+day

A

datetime.date(2021, 5, 19)