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

**Ans:**

from datetime import datetime

current\_date=datetime.today().strftime('%Y-%m-%d')

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

f.write(current\_date)

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

**Ans:**

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

today\_string=f.read()

3. Parse the date from today\_string.

**Ans:**

import pandas as pd

pd.to\_datetime(today\_string)

4. List the files in your current directory

**Ans:**

import os

files = [f for f in os.listdir('.') if os.path.isfile(f)]

print(files)

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

**Ans:**

import os

files = [f for f in os.listdir(os.chdir('..')) if os.path.isfile(f)]

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:**

import multiprocessing

from datetime import datetime

import random

print(random.randint(1, 5))

def func1():

print(datetime.now().strftime('%H-%M-%S'))

def func2():

print(datetime.now().strftime('%H-%M-%S'))

def func3():

print(datetime.now().strftime('%H-%M-%S'))

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

p1 = multiprocessing.Process(target=func1, args=(random.randint(1, 5), ))

p2 = multiprocessing.Process(target=func2, args=(random.randint(1, 5), ))

p3 = multiprocessing.Process(target=func3, args=(random.randint(1, 5), ))

p1.start()

p2.start()

p3.start()

p1.join()

p2.join()

p3.join()

print("Done!")

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

**Ans:**

import datetime

date=datetime.datetime(2020, 5, 17)

print(date)

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

**Ans:**

date.strftime('%A')

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

**Ans:**

import datetime

from datetime import timedelta

date=datetime.datetime(2020, 5, 17)

enddate=date+timedelta(days=10000)

print(enddate)