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

**Ans : from datetime import date**

**now = date.today()**

**now\_str = now.isoformat()**

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

**print(now\_str, file=output)**

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

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

**today\_string = input.read()**

**today\_string**

**'2021-12-04\n'**

3. Parse the date from today\_string.

**Ans : fmt = '%Y-%m-%d\n'**

**datetime.strptime(today\_string, fmt)**

**datetime.datetime(2021, 2, 4, 0, 0)**

4. List the files in your current directory

**Ans : If your current directory is ohmy and contains three files named after animals, it might**

**look like this:**

**import os**

**os.listdir('.')**

**['bears', 'lions', 'tigers']**

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

**Ans : If your parent directory contained two files plus the current ohmy directory, it might**

**look like this:**

**import os**

**os.listdir('..')**

**['ohmy', 'paws', 'whiskers']**

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 : Save this as multi\_times.py:**

**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()**

**$ python multi\_times.py**

**wait 0.4670532005508353 seconds, time is 2021-12-19 05:14:22.930541**

**wait 0.5908421960431798 seconds, time is 2021-12-19 05:14:23.054925**

**wait 0.8127669040699719 seconds, time is 2021-12-19 05:14:23.275767**

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

**Ans : my\_day = date(2000, 8, 17)**

**>>> my\_day**

**datetime.date(2000, 8, 17)**

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

**Ans : >>> my\_day.weekday()**

**3**

**>>> my\_day.isoweekday()**

**4**

**With weekday(), Monday is 0 and Sunday is 6. With isoweekday(), Monday is 1 and**

**Sunday is 7. Therefore, this date was a Thursday.**

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

**Ans : >>> from datetime import timedelta**

**>>> party\_day = my\_day + timedelta(days=10000)**

**>>> party\_day**

**datetime.date(2028, 1, 3)**