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

Sol:-

import datetime

from datetime import date

n= date.today()

n\_str=n.isoformat()

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

print(n,f)

>>>>> 2022-03-10 <\_io.TextIOWrapper name='today.txt' mode='w' encoding='cp1252'>

2. Read the text file today*.*txtinto the string today\_string.

Sol.

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

today\_string=input.read()

today\_string

>>>> '2022-03-10'

3. Parse the date from today\_string.

Sol.

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

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

>>> datetime.datetime(2022, 3, 10, 0, 0)

​

4. List the files in your current directory

Sol.

import os

os.listdir('.')

>>> ['.conda',

'.condarc',

'.continuum',

'.ipynb\_checkpoints',

'.ipython',

'.jupyter',

'19.3 MongoDB',

'19.3 MongoDB.7z',

'19.3.1 mongoDB introduction.ipynb',

'19.3.2 pyMongo.ipynb',

'19.3.3 Atlas.ipynb',

'3D Objects',

'anaconda3',

'AppData',

'Application Data',

'bank-additional',

'bank-additional-full.csv',

'books.csv',

'books.db',

'car.data',

'Contacts',

'Cookies',

'cricket.csv',

'Desktop',

'Documents',

'Downloads',

'email.csv',

'example.log',

'Favorites',

'glass.data',

'ineuron.db',

'jobdb.db',

'json\_res.csv',

'Links',

'Local Settings',

'logging pract.ipynb',

'MicrosoftEdgeBackups',

'mongodb class 1.ipynb',

'mongodb.ipynb',

'mongo\_img',

'Music',

'My Documents',

'NBA.csv',

'NetHood',

'New Microsoft Excel Worksheet.xlsx',

'NPProt.bkp',

'NPProt.exe',

'NTUSER.DAT',

'ntuser.dat.LOG1',

'ntuser.dat.LOG2',

'NTUSER.DAT{8b5d785f-8658-11ec-b21c-daed70947d8d}.TM.blf',

'NTUSER.DAT{8b5d785f-8658-11ec-b21c-daed70947d8d}.TMContainer00000000000000000001.regtrans-ms',

'NTUSER.DAT{8b5d785f-8658-11ec-b21c-daed70947d8d}.TMContainer00000000000000000002.regtrans-ms',

'ntuser.ini',

'OneDrive',

'pandas cont.ipynb',

'pandas day 3.ipynb',

'pandas day 4.ipynb',

'pandas.ipynb',

'person.db',

'person.db-journal',

'Pictures',

'PrintHood',

'Recent',

'result',

'sample.jpg',

'sample2.xls',

'sample\_test.csv',

'Saved Games',

'Searches',

'SendTo',

'sql assnmt.ipynb',

'sql basic 2.ipynb',

'sql basic.ipynb',

'sql lite.ipynb',

'Start Menu',

'task 5-3.ipynb',

'Templates',

'test.txt',

'today.txt',

'untitled',

'Untitled.ipynb',

'Untitled1.ipynb',

'Untitled2.ipynb',

'Untitled3.ipynb',

'Untitled4.ipynb',

'Videos',

'\_\_MACOSX']

5. List the files in your parent directory.

Sol.

os.listdir('..')

>> ['All Users', 'Default', 'Default User', 'desktop.ini', 'HP', 'Public']

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.

Sol.

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()

>>>>>> wait 1 seconds, time is 2022-03-10 11:07:54.091540

>>>>> wait 2 seconds, time is 2022-03-10 11:07:33.200328

>>>>> wait 3 seconds, time is 2022-03-10 11:08:05.366153

>>>>>>wait 4 seconds, time is 2022-03-10 11:08:18.135255

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

Sol.

my\_bday = date(1989, 5, 15)

my\_bday

>>>> datetime.date(1989, 5, 15)

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

Sol.

my\_bday.weekday()

>>> 0

my\_bday.isoweekday()

>>> 1

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

Sunday is 7. Therefore, this date was a Saturday.

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

Sol.

from datetime import timedelta

party\_day = my\_bday + timedelta(days=10000)

party\_day

>>>> datetime.date(2016, 9, 30)