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

import datetime

x = str(datetime.datetime.now())

file = open("today.txt","w")

file.write(x)

file.close()

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

import datetime

x = str(datetime.datetime.now())

file = open("today.txt","r")

today\_string = file.read()

print(today\_string)

>>> 2022-05-28 19:11:31.132030

3. Parse the date from today\_string.

from dateutil import parser

date\_time = parser.parse(today\_string)

print('TYPE: ',type(date\_time))

print('DATE: ',date\_time)

>>> TYPE: <class 'datetime.datetime'>

DATE: 2022-05-28 19:11:31.132030

4. List the files in your current directory.

import os

path = "C:/Users/aniket\_gaikwad/MLProject"

dir\_list = os.listdir(path)

print("Files and directories in '", path, "' :")

print(dir\_list)

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

import os

path = os.getcwd()

parent = os.path.dirname(path)

dir\_list = os.listdir(parent)

print(dir\_list)

>>> ['.anaconda', '.angular-config.json', '.bash\_history', '.conda', '.condarc', '.config', '.ipython', '.jupyter', '.matplotlib', '.node\_repl\_history', '.rest-client', '.vscode', '3D Objects', 'AppData', 'Application Data', 'Contacts', 'Cookies', 'CRUD', 'Debug', 'Desktop', 'Documents', 'Downloads', 'Employee\_Portal', 'Employee\_Portal\_V2', 'Favorites', 'hotdeskingui', 'IntelGraphicsProfiles', 'JavaScript', 'Links', 'Local Settings', 'mcafee dlp quarantined files', 'MicrosoftEdgeBackups', 'MLProject', 'Music', 'My Documents', 'NetHood', 'New folder', 'Node', 'node\_e2e', 'Node\_Practice', 'NTUSER.DAT', 'ntuser.dat.LOG1', 'ntuser.dat.LOG2', 'NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TM.blf', 'NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TMContainer00000000000000000001.regtrans-ms', 'NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TMContainer00000000000000000002.regtrans-ms', 'ntuser.ini', 'Personal-Portfolio', 'Pictures', 'Postman', 'PrintHood', 'Production', 'PycharmProjects', 'Recent', 'Saved Games', 'Searches', 'SendTo', 'Start Menu', 'Templates', 'Videos']

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.

import multiprocessing

import datetime

from random import randint

from time import sleep

def random\_number(delay):

sleep(delay)

print(datetime.datetime.now())

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

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

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

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

p1.start()

p2.start()

p3.start()

p1.join()

p2.join()

p3.join()

print("Completed")

PS C:\Users\aniket\_gaikwad\MLProject> python zoo.py

2022-05-28 20:34:09.409078

2022-05-28 20:34:11.395766

2022-05-28 20:34:12.436216

Completed

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

import datetime

x = datetime.datetime(2000, 6, 21)

print(x)

PS C:\Users\aniket\_gaikwad\MLProject> python zoo.py

2000-06-21 00:00:00

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

import datetime

x = datetime.datetime(2000, 6, 21)

print(x.strftime('%A'))

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

import datetime

date = "2000-06-21"

date = datetime.datetime.strptime(date, "%Y-%m-%d")

print("Date of Birth: ")

print(date)

end\_date = date + datetime.timedelta(days=10000)

print("Date after 10000 days:")

print(end\_date)

PS C:\Users\aniket\_gaikwad\MLProject> python zoo.py

Date of Birth:

2000-06-21 00:00:00

Date after 10000 days:

2027-11-07 00:00:00