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

Ans : import datetime

# Code to Add current date to the today.txt file

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

file.write(datetime.datetime.now().strftime("%d-%m-%Y"))

file.close()

# Code to Read current date from today.txt file

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

print(file.read())

file.close()

22-09-2022

2)read the text file today.txt into the string today\_string

Ans : file = open('today.txt','r')

today\_string = file.read()

print(today\_string)

22-09-2022

3)parse the date from today\_string .

Ans : from datetime import datetime

parsed\_data = datetime.strptime(today\_string, '%d-%m-%Y')

print(parsed\_data)

2021-09-22 00:00:00

4)List the files in your current directory.

Ans : import os

for folders, subfolders, files in os.walk(os.getcwd()):

for file in files:

print(file)

01.Assignment\_01.ipynb

02.Assignment\_02.ipynb

03.Assignment\_03.ipynb

04.Assignment\_04.ipynb

05.Assignment\_05.ipynb

06.Assignment\_06.ipynb

07.Assignment\_07.ipynb

5)create a list of all of the files in your parent directory.

Ans : import os

os.listdir()

['.ipynb\_checkpoints',

'01.Assignment\_01.ipynb',

'02.Assignment\_02.ipynb',

'03.Assignment\_03.ipynb',

'04.Assignment\_04.ipynb',

'05.Assignment\_05.ipynb',

'06.Assignment\_06.ipynb',

'07.Assignment\_07.ipynb',

6)use the multiprocessing to create three separate process.make each one wait a random number of seconds between one and five ,print the current time & then exit.

Ans : import multiprocessing

import time

import random

import datetime

def procOne():

print(f'Proc\_one\_Starttime -> {datetime.datetime.now()}')

time.sleep(random.randint(1,5))

print(f'Proc\_one\_Endtime -> {datetime.datetime.now()}')

def procTwo():

print(f'Proc\_two\_Starttime -> {datetime.datetime.now()}')

time.sleep(random.randint(1,5))

print(f'Proc\_two\_Endtime -> {datetime.datetime.now()}')

def procThree():

print(f'Proc\_two\_Starttime -> {datetime.datetime.now()}')

time.sleep(random.randint(1,5))

print(f'Proc\_two\_Endtime -> {datetime.datetime.now()}')

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

p1 = multiprocessing.Process(target=procOne)

p2 = multiprocessing.Process(target=procTwo)

p3 = multiprocessing.Process(target=procThree)

p1.start()

p2.start()

p3.start()

p1.join()

p2.join()

p3.join()

Due to some unknown reason. the above did not print any results in the jupyter cell. so i copied the code to a python file. executed it and pasted the ouput here

(base) C:\Users\vishnu.adepu\Desktop>python es\_poc.py

Proc\_one\_Starttime -> 2021-09-22 18:41:59.354061

Proc\_two\_Starttime -> 2021-09-22 18:41:59.363712

Proc\_two\_Starttime -> 2021-09-22 18:41:59.367238

Proc\_two\_Endtime -> 2021-09-22 18:42:04.369860

Proc\_two\_Endtime -> 2021-09-22 18:42:04.369860

Proc\_one\_Endtime -> 2021-09-22 18:42:04.369860

7)create a date object of your day of birth.

Ans :from datetime import datetime

my\_dob = datetime.strptime('22/04/1997','%d/%m/%Y')

print(my\_dob, type(my\_dob))

1997-04-22 00:00:00 <class 'datetime.datetime'>

8)what day of the week was your day of birth.?

Ans : from datetime import datetime

my\_dob = datetime(1997,4,22)

my\_dob.strftime("%A")

'Tuesday'

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

Ans : from datetime import datetime, timedelta

my\_dob = datetime.strptime("22/04/1997",'%d/%m/%Y')

future\_date = my\_dob-timedelta(10000)

future\_date

datetime.datetime(1969, 12, 5, 0, 0)