# Assignment 21

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

**Answer:**

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()

22-09-2021

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

**Answer:**

file = open('today.txt','r')  
today\_string = file.read()  
print(today\_string)

22-09-2021

#### 3. Parse the date from today\_string.

**Answer:**

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

**Answer:**

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

01.Assignment\_01.docx  
02.Assignment\_02.docx  
03.Assignment\_03.docx  
04.Assignment\_04.docx  
05.Assignment\_05.docx  
06.Assignment\_06.docx  
07.Assignment\_07.docx  
08.Assignment\_08.docx  
09.Assignment\_09.docx  
10.Assignment\_10.docx  
11.Assignment\_11.docx  
12.Assignment\_12.docx  
13.Assignment\_13.docx  
14.Assignment\_14.docx  
15.Assignment\_15.docx  
16.Assignment\_16.docx  
17.Assignment\_17.docx  
18.Assignment\_18.docx  
19.Assignment\_19.docx  
20.Assignment\_20.docx  
21.Assignment\_21.docx  
22.Assignment\_22.docx  
23.Assignment\_23.docx  
24.Assignment\_24.docx  
25.Assignment\_25.docx  
today.txt  
21.Assignment\_21-checkpoint.docx  
22.Assignment\_22-checkpoint.docx  
23.Assignment\_23-checkpoint.docx  
24.Assignment\_24-checkpoint.docx  
25.Assignment\_25-checkpoint.docx

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

**Answer:**

import os   
os.listdir()

['.docx\_checkpoints',  
 '01.Assignment\_01.docx',  
 '02.Assignment\_02.docx',  
 '03.Assignment\_03.docx',  
 '04.Assignment\_04.docx',  
 '05.Assignment\_05.docx',  
 '06.Assignment\_06.docx',  
 '07.Assignment\_07.docx',  
 '08.Assignment\_08.docx',  
 '09.Assignment\_09.docx',  
 '10.Assignment\_10.docx',  
 '11.Assignment\_11.docx',  
 '12.Assignment\_12.docx',  
 '13.Assignment\_13.docx',  
 '14.Assignment\_14.docx',  
 '15.Assignment\_15.docx',  
 '16.Assignment\_16.docx',  
 '17.Assignment\_17.docx',  
 '18.Assignment\_18.docx',  
 '19.Assignment\_19.docx',  
 '20.Assignment\_20.docx',  
 '21.Assignment\_21.docx',  
 '22.Assignment\_22.docx',  
 '23.Assignment\_23.docx',  
 '24.Assignment\_24.docx',  
 '25.Assignment\_25.docx',  
 'today.txt']

#### 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.

**Answer:**

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.

**Answer:**

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?

**Answer:**

from datetime import datetime  
my\_dob = datetime(1997,4,22)  
my\_dob.strftime("%A")

'Tuesday'

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

**Answer:**

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)