**Assignment21:  
Submitted By: Bhupendra Singh**

**Qus1. Add the current date to the text file today.txt as a string.**

**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()

08-05-2022

**Qus2. Read the text file today.txt into the string today\_string**

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

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

print(today\_string)

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**Qus3. Parse the date from today\_string.**

**from** datetime **import** datetime

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

print(parsed\_data)

2022-05-08 00:00:00

**Qus4. List the files in your current directory**

**import** os

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

**for** file **in** files:

print(file)

today.txt

.last\_update\_check.json

active\_config

.metricsUUID

.last\_opt\_in\_prompt.yaml

.feature\_flags\_config.yaml

.last\_survey\_prompt.yaml

gce

config\_sentinel

13.41.59.446937.log

13.41.39.801080.log

13.42.27.306713.log

13.42.06.910291.log

13.42.28.055870.log

13.41.17.129790.log

config\_default

anscombe.json

README.md

mnist\_test.csv

mnist\_train\_small.csv

california\_housing\_train.csv

california\_housing\_test.csv

**Qus5. Create a list of all of the files in your parent directory (minimum five files should be available).**

**import** os

os**.**listdir()

['.config', 'today.txt', 'sample\_data']

**Qus6. 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** 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()

Proc\_one\_Starttime -> 2022-05-08 05:34:54.746835

Proc\_two\_Starttime -> 2022-05-08 05:34:54.756046

Proc\_two\_Starttime -> 2022-05-08 05:34:54.771798

Proc\_two\_Endtime -> 2022-05-08 05:34:55.777636

Proc\_two\_Endtime -> 2022-05-08 05:34:56.764917

Proc\_one\_Endtime -> 2022-05-08 05:34:57.764113

**Qus7. Create a date object of your day of birth.**

**from** datetime **import** datetime

my\_dob **=** datetime**.**strptime('12/01/1994','%d/%m/%Y')

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

1994-01-12 00:00:00 <class 'datetime.datetime'>

**Qus8. What day of the week was your day of birth?**

**from** datetime **import** datetime

my\_dob **=** datetime(1994,1,12)

my\_dob**.**strftime("%A")

'Wednesday'

**Qus9. When will you be (or when were you) 10,000 days old?**

**from** datetime **import** datetime, timedelta

my\_dob **=** datetime**.**strptime("12/01/1994",'%d/%m/%Y')

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

future\_date

datetime.datetime(1966, 8, 27, 0, 0)