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

Ans. **import** datetime

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

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

file**.**close()

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

print(file**.**read())

file**.**close()

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)

3. Parse the date from today\_string.

Ans. **from** datetime **import** datetime

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

print(parsed\_data)

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)

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

Ans. **import** os

os**.**listdir()

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.

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()

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))

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")

9. When 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