Assignment_21

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

	In [9]:
from datetime import date	In [10]:
now = date.today()	In [11].
now_str = now.isoformat()	In [11]:
new_st. newnserenat()	In [12]:
<pre>with open('today', 'wt') as output: print(now_str, file=output)</pre>	
2. Read the text file today.txt into the string today_string	
	In [13]:
<pre>with open('today', 'rt') as input: today_string = input.read()</pre>	1. [4.4]
today_string	In [14]:
toddy_string	Out[14]:
'2021-07-27\n'	
3. Parse the date from today_string.	
	In [15]:
<pre>fmt = '%Y-%m-%d\n' datetime.strptime(today_string, fmt)</pre>	
4. List the files in your current directory	
	In [17]:

```
import os
```

```
In [18]:
os.listdir('.')
                                                                         Out[18]:
['.ipynb checkpoints',
'Assignment_1.ipynb',
'Assignment_10.ipynb',
'Assignment 11.ipynb',
'Assignment 12.ipynb',
'Assignment 13.ipynb',
'Assignment 14.ipynb',
'Assignment 15.ipynb',
'Assignment 16.ipynb',
'Assignment 17.ipynb',
'Assignment 18.ipynb',
'Assignment_19.ipynb',
'Assignment 2.ipynb',
'Assignment 20.ipynb',
'Assignment 21.ipynb',
'Assignment 3.ipynb',
'Assignment 4.ipynb',
'Assignment_5.ipynb',
'Assignment 6.ipynb',
'Assignment 7.ipynb',
'Assignment_8.ipynb',
'Assignment_9.ipynb',
'books.csv',
'books.db',
'test.txt',
'today',
'zoo.py',
'__pycache__']
```

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

import os In [21]: os.listdir('..') Out[21]: ['Python Advance Assignment', 'Python Advance Assignment solutions', 'Python Basic Assignment', 'Python Basic Assignment solutions', 'Python Programming Basic Assignment', 'Python Programming Basic Assignment solutions'] 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 def now(seconds): from datetime import datetime from time import sleep sleep(seconds) print('wait', seconds, 'seconds, time is', datetime.utcnow()) if **name** == 'main': import random for n in range(3): seconds = random.random() proc = multiprocessing.Process(target=now, args=(seconds,)) proc.start() 7. Create a date object of your day of birth. In [26]: $my_day = date(1995, 7, 12)$ In [27]: my_day Out[27]: datetime.date(1995, 7, 12) 8. What day of the week was your day of birth? In [29]:

my_day.weekday()

	Out[29]:
2	In [30]:
my_day.isoweekday()	Out[30]:
3 With weekday(), Monday is 0 and Sunday is 6. With isoweekday(), Monday is 1 and Sunday is 7. Therefore, this date was a Saturday.	
9. When will you be (or when were you) 10,000 days old?	
	In [31]:
from datetime import timedelta	. [22]
narty, day - my day I timedalta/days-10000\	In [32]:
party_day = my_day + timedelta(days=10000)	In [33]:
party_day	