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

Ans:

```
In [1]: 1 import datetime
2  file = open('today.txt','w')
3  file.write(datetime.datetime.now().strftime("%d/%m/%Y"))
4  file.close()
5  file = open('today.txt','r')
6  print(file.read())
7  file.close()
22/04/2022
```

2. Parse the date from today_string.

Ans:

```
In [2]: 1 file = open('today.txt','r')
2 today_string = file.read()
3 print(today_string)
```

3. Parse the date from today_string.

Ans:

```
In [4]: 1 from datetime import datetime
2 parsed_data = datetime.strptime(today_string, '%d/%m/%Y')
3 print(parsed_data)
2022-04-22 00:00:00
```

4. List the files in your current directory

Ans:

```
In [5]:

1 import os
2 for folders, subfolders, files in os.walk(os.getcwd()):
3 for file in files:
4 application_log.txt
arrays.ipynb
books.cl kmalysis (Natrices).ipynb
books.cl kmalysis (Natrices).ipynb
code indentation.ipynb
code indentation.ipynb
code indentation.ipynb
pate frames.ipynb
Functions.ipynb
gretl.nk
Homework 2 financial statement analysis.csv
Homework 2 financial statement analysis.csv
Homework 3 Eastetball free throws.ipynb
Homework 6 Movile domestic gross.ipynb
Homework 8 fovide domestic gross.ipynb
Homework 8 fovide somestic gross.ipynb
Homework 8 fovide somestic gross.ipynb
installing and importing packages.ipynb
installing and importing packages.ipynb
ML_Decision tree regression.ipynb
ML_Decision tree regression.ipynb
ML_Delymonial linear regression.ipynb
ML_De
```

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

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: The following code doesn't finish runtime on jupyter notebook.

```
import multiprocessing
import time
import andom
import datetime

def process1():
    time.sleep(random.randint(1,5))
    print(f'Process 1: {datetime.datetime.now()}')

def process2():
    time.sleep(random.randint(1,5))
    print(f'Process 2: {datetime.datetime.now()}')

def process3():
    time.sleep(random.randint(1,5))
    print(f'Process 3: {datetime.datetime.now()}')

for process 3: {datetime.datetime.now()}')

if __name__ == "__main__":
    pl = multiprocessing.Process(target=process1)
    p2 = multiprocessing.Process(target=process2)
    p3 = multiprocessing.Process(target=process3)

p1.start()
    p3.start()
    p3.start()
    p3.join()
    p3.join()
```

```
(base) PS C:\Users\thejaswini\Desktop> python process.py
Process 2: 2022-04-23 11:29:53.579806
Process 1: 2022-04-23 11:29:53.575311
Process 3: 2022-04-23 11:29:53.586286
```

7. Create a date object of your day of birth.

Ans:

```
In [2]: 1 | from datetime import datetime
2 | my_dob = datetime.strptime('15/01/1996','%d/%m/%Y')
3 | print(my_dob, type(my_dob))
1996-01-15 00:00:00 <class 'datetime.datetime'>
```

8. What day of the week was your day of birth?

Ans:

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

Ans:

```
In [6]: 1 from datetime import datetime, timedelta
2 my.dob = datetime.strptime("15/1/1991", '%d/%m/%Y')
3 older = my_dob-timedelta(10000)
4 older

Out[6]: datetime.datetime(1963, 8, 30, 0, 0)
```