

Title : Python Basic Assignment-21
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1. Add the current date to the text file today.txt as a string.

```
import datetime

x = str(datetime.datetime.now())

file = open("today.txt", "w")

file.write(x)

file.close()
```

2. Read the text file today.txt into the string today_string.

```
import datetime

x = str(datetime.datetime.now())

file = open("today.txt", "r")

today_string = file.read()

print(today_string)

>>> 2022-05-28 19:11:31.132030
```

3. Parse the date from today_string.

```
from dateutil import parser

date_time = parser.parse(today_string)

print('TYPE: ', type(date_time))

print('DATE: ', date_time)

>>> TYPE:  <class 'datetime.datetime'>

DATE:  2022-05-28 19:11:31.132030
```

4. List the files in your current directory.

```
import os

path = "C:/Users/aniket_gaikwad/MLProject"

dir_list = os.listdir(path)

print("Files and directories in '", path, "' :")

print(dir_list)
```

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

```
import os

path = os.getcwd()

parent = os.path.dirname(path)

dir_list = os.listdir(parent)

print(dir_list)

>>> ['.anaconda', '.angular-config.json', '.bash_history', '.conda',
'.condarc', '.config', '.ipython', '.jupyter', '.matplotlib',
'.node_repl_history', '.rest-client', '.vscode', '3D Objects',
'AppData', 'Application Data', 'Contacts', 'Cookies', 'CRUD', 'Debug',
'Desktop', 'Documents', 'Downloads', 'Employee_Portal',
'Employee_Portal_V2', 'Favorites', 'hotdeskingui',
'IntelGraphicsProfiles', 'JavaScript', 'Links', 'Local Settings',
'mcafee dlp quarantined files', 'MicrosoftEdgeBackups', 'MLProject',
'Music', 'My Documents', 'NetHood', 'New folder', 'Node', 'node_e2e',
'Node_Practice', 'NTUSER.DAT', 'ntuser.dat.LOG1', 'ntuser.dat.LOG2',
'NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TM.blf',
'NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TMContainer00000000000000000001.regtrans-ms',
'NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TMContainer00000000000000000002.regtrans-ms',
'ntuser.ini', 'Personal-Portfolio', 'Pictures', 'Postman', 'PrintHood',
```

```
'Production', 'PycharmProjects', 'Recent', 'Saved Games', 'Searches',  
'SendTo', 'Start Menu', 'Templates', 'Videos']
```

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  
  
import datetime  
  
from random import randint  
  
from time import sleep  
  
def random_number(delay):  
    sleep(delay)  
  
    print(datetime.datetime.now())  
  
if __name__ == "__main__":  
    p1 = multiprocessing.Process(target=random_number,  
args=(randint(1,5), ))  
  
    p2 = multiprocessing.Process(target=random_number,  
args=(randint(1,5), ))  
  
    p3 = multiprocessing.Process(target=random_number,  
args=(randint(1,5), ))  
  
    p1.start()  
  
    p2.start()  
  
    p3.start()  
  
    p1.join()
```

```
p2.join()

p3.join()

print("Completed")

PS C:\Users\aniket_gaikwad\MLProject> python zoo.py

2022-05-28 20:34:09.409078

2022-05-28 20:34:11.395766

2022-05-28 20:34:12.436216

Completed
```

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

```
import datetime

x = datetime.datetime(2000, 6, 21)

print(x)

PS C:\Users\aniket_gaikwad\MLProject> python zoo.py

2000-06-21 00:00:00
```

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

```
import datetime

x = datetime.datetime(2000, 6, 21)

print(x.strftime('%A'))
```

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

```
import datetime

date = "2000-06-21"
```

```
date = datetime.datetime.strptime(date, "%Y-%m-%d")

print("Date of Birth: ")

print(date)

end_date = date + datetime.timedelta(days=10000)

print("Date after 10000 days:")

print(end_date)

PS C:\Users\aniket_gaikwad\MLProject> python zoo.py

Date of Birth:

2000-06-21 00:00:00

Date after 10000 days:

2027-11-07 00:00:00
```