Assignment 21 Solutions

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

ANS:

In [1]:

```python
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()
```

05-12-2022

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

ANS:

In [2]:

```python
with open('today.txt','r') as file:
    today_string = file.read()
today_string
```

Out[2]:

'05-12-2022'

3. Parse the date from today_string.

ANS:

In [3]:

```python
from datetime import datetime
parsed_data = datetime.strptime(today_string, '%d-%m-%Y')
print(parsed_data)
```

2022-12-05 00:00:00

4. List the files in your current directory.

ANS:

In [4]:

```
1  import os
2  os.listdir('.')
```

'Assignment no 19.ipynb',
'Assignment no 2 .ipynb',
'Assignment no 20.ipynb',
'Assignment no 3 .ipynb',
'Assignment no 4 .ipynb',
'Assignment no 5 .ipynb',
'Assignment no 6.ipynb',
'Assignment no 7.ipynb',
'Assignment no 8.ipynb',
'Assignment no 9.ipynb',
'Attribute DataSet.xlsx',
'books.csv',
'books.db',
'Contacts',
'Cookies',
'decision tree .ipynb',
'Documents',
'Downloads',
'Dress Sales.xlsx',
'DressSales.csv',

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

ANS:

In [5]:

```
1  import os
```

In [6]:

```
1  os.listdir('..')
```

Out[6]:

['abhik',
 'All Users',
 'Default',
 'Default User',
 'defaultuser100000',
 'desktop.ini',
 'Public']

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:

In [7]:

```python
import multiprocessing

def printsec(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=printsec, args=(seconds,))
        proc.start()
```

In [8]:

```python
!python multi.py
```

```
wait 0.47575018177512496 seconds, time is 2022-12-04 18:35:04.888579
wait 0.8666831040448785 seconds, time is 2022-12-04 18:35:05.278480
wait 0.9694652629948074 seconds, time is 2022-12-04 18:35:05.397553
```

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

ANS:

In [9]:

```python
from datetime import datetime
my_dob = datetime.strptime('15/01/1999','%d/%m/%Y')
print(my_dob, type(my_dob))
```

```
1999-01-15 00:00:00 <class 'datetime.datetime'>
```

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

ANS:

In [10]:

```python
from datetime import datetime
my_dob = datetime(1999,1,15)
my_dob.strftime("%A")
```

Out[10]:

```
'Friday'
```

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

ANS:

In [11]:

```python
from datetime import datetime, timedelta
my_dob = datetime.strptime("15/01/1999",'%d/%m/%Y')
future_date = my_dob-timedelta(10000)
future_date
```

Out[11]:

```
datetime.datetime(1971, 8, 30, 0, 0)
```

```python
from datetime import datetime, timedelta
my_dob = datetime.strptime("15/01/1999",'%d/%m/%Y')
future_date = my_dob-timedelta(10000)
future_date
```