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

**ANS:-**

**import datetime**

**from datetime import date**

**now = date.today()**

**cur\_date = now.isoformat()**

**cur\_date**

**'2024-05-08'**

**with open('today.txt','w') as file:**

**file.write(cur\_date)**

**2. Read the text file today.txt into the string today\_string**

**ANS:-**

**with open('today.txt','r') as file:**

**today\_string = file.read()**

**today\_string**

**'2024-05-08'**

**3. Parse the date from today\_string.**

**ANS:-**

**from datetime import datetime**

**format = '%Y-%m-%d'**

**datetime.strptime(today\_string,format)**

**datetime.datetime(2024, 5, 8, 0, 0)**

**4. List the files in your current directory**

**ANS:-**

**import os**

**os.listdir('.')**

**['.config',**

**'solo-leveling-igris-shadow-uhdpaper.com-8K-4.2344.jpg',**

**'today.txt',**

**'shiva.jpg',**

**'igris-solo-leveling-uhdpaper.com-4K-7.1071.jpg',**

**'abc.py',**

**'60edcc1c438e5.png',**

**'sample\_data']**

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

**ANS:-**

**import os**

**os.listdir('.')**

**['.config',**

**'solo-leveling-igris-shadow-uhdpaper.com-8K-4.2344.jpg',**

**'today.txt',**

**'shiva.jpg',**

**'igris-solo-leveling-uhdpaper.com-4K-7.1071.jpg',**

**'abc.py',**

**'60edcc1c438e5.png',**

**'sample\_data']**

**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**

**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()**

**!python abc.py**

**wait 0.3778828345877602 seconds, time is 2021-07-23 11:58:00.088968**

**wait 0.40470650039299916 seconds, time is 2021-07-23 11:58:00.117663**

**wait 0.8617609567347891 seconds, time is 2021-07-23 11:58:00.568776**

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

**ANS:-**

**my\_dob = date(1998,9,9)**

**my\_dob**

**datetime.date(1998, 9, 9)**

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

**ANS:-**

**my\_dob.weekday()**

**2**

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

**ANS:-**

**from datetime import timedelta**

**day10000 = my\_dob + timedelta(days=10000)**

**day10000**

**datetime.date(2026, 1, 25)**