ASSIGNMENT - 21

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

Ans:

*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()*

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

*Ans: file = open('today.txt','r')*

*today\_string = file.read()*

*print(today\_string)*

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3. Parse the date from today\_string.

*Ans: from datetime import datetime*

*parsed\_data = datetime.strptime(today\_string, '%d-%m-%Y')*

*print(parsed\_data)*

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4. List the files in your current directory

*Ans:*

*import os*

*for folders, subfolders, files in os.walk(os.getcwd()):*

*for file in files:*

*print(file)*

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

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

Ans: *import os*

*os.listdir()*

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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*

*import time*

*import random*

*import datetime*

*def procOne():*

*print(f'Proc\_one\_Starttime -> {datetime.datetime.now()}')*

*time.sleep(random.randint(1,5))*

*print(f'Proc\_one\_Endtime -> {datetime.datetime.now()}')*

*def procTwo():*

*print(f'Proc\_two\_Starttime -> {datetime.datetime.now()}')*

*time.sleep(random.randint(1,5))*

*print(f'Proc\_two\_Endtime -> {datetime.datetime.now()}')*

*def procThree():*

*print(f'Proc\_two\_Starttime -> {datetime.datetime.now()}')*

*time.sleep(random.randint(1,5))*

*print(f'Proc\_two\_Endtime -> {datetime.datetime.now()}')*

*if \_\_name\_\_ == "\_\_main\_\_":*

*p1 = multiprocessing.Process(target=procOne)*

*p2 = multiprocessing.Process(target=procTwo)*

*p3 = multiprocessing.Process(target=procThree)*

*p1.start()*

*p2.start()*

*p3.start()*

*p1.join()*

*p2.join()*

*p3.join()*

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

Ans: *from datetime import datetime*

*my\_dob = datetime.strptime('22/04/1997','%d/%m/%Y')*

*print(my\_dob, type(my\_dob))*

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

Ans: *from datetime import datetime*

*my\_dob = datetime(1997,4,22)*

*my\_dob.strftime("%A")*

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

Ans: *from datetime import datetime, timedelta*

*my\_dob = datetime.strptime("22/04/1997",'%d/%m/%Y')*

*future\_date = my\_dob-timedelta(10000)*

*future\_date*

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