**Python Assignment - 21**

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

Output

'2023-06-19'

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

Output

'2023-06-19'

3. Parse the date from today\_string.

**Ans:**

from datetime import datetime

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

datetime.strptime(today\_string,format)

Output

datetime.datetime(2023,6,19, 0, 0)

4. List the files in your current directory

**Ans:**

import os

os.listdir('.')

Output

['.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

path = "C://Users//AmitG//Desktop//SIya"

dir\_list = os.listdir(path)

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

print(dir\_list)

OutPut

Files and directories in ‘C://Users//AmitG//Desktop//SIya’ :

[‘FSD.XLSX’, ‘kotak mahindra.docx’, ‘CIR Report June 22\_10402.pdf’, ‘1678860420181.jpg’. ‘ineuro.csv’]

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 2023-06-20 11:58:00.088968

wait 0.40470650039299916 seconds, time is 2023-06-20 11:58:00.117663

wait 0.8617609567347891 seconds, time is 2023-06-20 11:58:00.568776

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

**Ans:**

my\_dob = date(1981,8,9)

my\_dob

Output

datetime.date(1981, 9, 8)

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

**Ans:**

my\_dob.weekday()

Output

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

Output

datetime.date(2009, 1, 24)