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

Ans:-

|  |
| --- |
| # Python script to create an empty file  # with current date as name.    # importing datetime module  import datetime    # datetime.datetime.now() to get  # current date as filename.  filename = datetime.datetime.now()    # create empty file  def create\_file():      # Function creates an empty file      # %d - date, %B - month, %Y - Year      with open(filename.strftime("%d %B %Y")+".txt", "w") as file:          file.write("")    # Driver Code  create\_file() |

**16 october 2021.txt**

from datetime import date

with open("today.txt","wt") as fout:

now=date.today()

now\_str=now.isoformat()

print(now\_str,file=fout)

output today.txt

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

Ans:- with open("today.txt","rt") as input:

today\_string=input.read()

today\_string

'2021-01-28\n'

1. Take the date from today\_string and parse it.

Ans:- import time

fmt="%Y-%m-%d\n"

#String ⇨ strptime for date information()use.

time.strptime(today\_string,fmt)

time.struct\_time(tm\_year=2021, tm\_mon=1, tm\_mday=28, tm\_hour=0, tm\_min=0, tm\_sec=0, tm\_wday=1, tm\_yday=28, tm\_isdst=-1)

1. Make list of all the files in the current directory.

Ans:- To get a list of all the files and folders in a particular directory in the filesystem, use **os.** **listdir() in legacy versions of Python** or os. scandir() in Python 3.

import os

files = os.listdir('.')

print(files)

1. Create a list of all of the files in your parent directory.

Ans:- import os

os.listdir("..")

['.DS\_Store', '61.py', 'bin', 'python', 'include', 'lib']

1. Build three distinct processes using multiprocessing. Wait a random number of seconds between one and five for each, then print the current time and exit.

Ans:-

import multiprocessing

import os

def now(seconds):

from datetime import datetime

from time import sleep

sleep(seconds)

print("wait", seconds, "second, time is ", datetime.utcnow())

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

import random

for n in range(3):

seconds=random.random()

proc=multiprocessing.Process(target=now, args=(seconds,))

proc.start()

**Execution result**

python3 multi\_times.py

wait 0.31146317121366796 second, time is 2021-10-17 06:30:39.446188

wait 0.5162984978514253 second, time is 2021-10-17 06:30:39.650398

wait 0.8005158157521853 second, time is 2021-10-1706:30:39.934936

1. Make a date item for your birthday.

Ans:- from datetime import date

birthday=date(1979, 05, 30)

birthday

datetime.date(1979, 05, 30)

output-:datetime.date(1979, 05, 30)

1. What day of the week did you born into this world?

Ans:- import time

from datetime import date

birthday=date(1979, 05, 30)

fmt="%Y-%m-%d-%A"

date.strftime(birthday,fmt)

'1979-05-30-sunday

1. When would you (or were you) reach the age of 10,000 days?

Ans:- from datetime import timedelta

day=timedelta(days=10000)

A=birthday+day

A

datetime.date(2021, 5, 30)