Python Basics Assignment 21

```
1. Add the current date to the text file today.txt as a string.
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()
10-09-2022
2. Read the text file today.txt into the string today_string
file = open('today.txt','r')
today_string = file.read()
print(today_string)
10-09-2022
3. Parse the date from today_string.
from datetime import datetime
parsed_data = datetime.strptime(today_string, '% d-% m-% Y')
print(parsed_data)
2022-09-10 00:00:00
4. List the files in your current directory
import os
for folders, subfolders, files in os.walk(os.getcwd()):
  for file in files:
    print(file)
Assignment 1.pdf
Assignment 10.pdf
Assignment 11.pdf
Assignment_12.pdf
Assignment_13. pdf
Assignment 14. pdf
Assignment_15. pdf
Assignment_17. pdf
Assignment_18. pdf
Assignment_19. pdf
Assignment 2. pdf
Assignment_20. pdf
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Assignment 21. pdf
Assignment_3. pdf
Assignment_4. pdf
Assignment 5. pdf
Assignment 6. pdf
Assignment_7. pdf
Assignment_8. pdf
Assignment_9. pdf
books.csv
books.db
Python Basics Assignment 1. pdf
Python_Basics_Assignment_10. pdf
Python_Basics_Assignment_11. pdf
Python_Basics_Assignment_12. pdf
Python_Basics_Assignment_13. pdf
Python_Basics_Assignment_14. pdf
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Python_Basics_Assignment_24. pdf
Python_Basics_Assignment_25. pdf
Python Basics Assignment 3. pdf
Python_Basics_Assignment_4. pdf
Python_Basics_Assignment_5. pdf
Python_Basics_Assignment_6. pdf
Python_Basics_Assignment_7. pdf
Python_Basics_Assignment_8. pdf
Python Basics Assignment 9. pdf
5. Create a list of all of the files in your parent directory (minimum five files should be available).
```

import os

os.listdir()

```
['.ipynb checkpoints',
'Assignment 1. pdf,
'Assignment_10. pdf,
'Assignment_11. pdf,
'Assignment_12. pdf,
'Assignment_13. pdf,
'Assignment_14. pdf,
'Assignment 15. pdf,
'Assignment 17. pdf,
'Assignment_18. pdf,
'Assignment 19. pdf,
```

```
'Assignment 2. pdf,
'Assignment_20. pdf,
'Assignment_21. pdf,
'Assignment 3. pdf,
'Assignment 4. pdf,
'Assignment_5. pdf,
'Assignment_6. pdf,
'Assignment_7. pdf,
'Assignment_8. pdf,
'Assignment 9. pdf,
'books.csv',
'books.db',
'Python Basics_Assignment_1. pdf,
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'Python_Basics_Assignment_11. pdf,
'Python_Basics_Assignment_12. pdf,
'Python_Basics_Assignment_13. pdf,
'Python_Basics_Assignment_14. pdf,
'Python_Basics_Assignment_15. pdf,
'Python Basics Assignment 16. pdf,
'Python Basics Assignment 17. pdf,
'Python_Basics_Assignment_18',
'Python_Basics_Assignment_19. pdf,
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'Python_Basics_Assignment_4. pdf,
'Python_Basics_Assignment_5. pdf,
'Python Basics Assignment 6. pdf,
'Python Basics Assignment 7. pdf,
'Python_Basics_Assignment_8. pdf,
'Python_Basics_Assignment_9. pdf,
'test.txt',
'today.txt']
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.
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()
7. Create a date object of your day of birth.
from datetime import datetime
my_dob = datetime.strptime('12/01/1994','%d/%m/%Y')
print(my_dob, type(my_dob))
1994-01-12 00:00:00 < class 'datetime.datetime'>
8. What day of the week was your day of birth?
from datetime import datetime
my_dob = datetime(1994,1,12)
my_dob.strftime("% A")
'Wednesday'
9. When will you be (or when were you) 10,000 days old?
from datetime import datetime, timedelta
my_dob = datetime.strptime("12/01/1994", '% d/% m/% Y')
future_date = my_dob-timedelta(10000)
future date
datetime.datetime(1966, 8, 27, 0, 0)
```