FILE HANDLING/DateTime EXERCISE

Exercise #1 (FH)

Write a Python program that prompts the user to enter some text, then saves that text to a file named "output.txt".

HINT:
   a. Create a function that takes file_name as input
   b. Prompt the user to input some text
   c. Open the file and write this text inside the file (.write function)
   d. Call the function to perform the above task

Exercise #2 (FH)

Write a Python program that copies the contents of one file ("source.txt") to another file ("destination.txt").
   (First create a text file with text on your preferred topic to be used as source.txt)
HINT: _(Opening a file within a file)_
   a. Create a function that takes 2 file names as inputs (source_file, destination_file)
   b. Open the source file in 'read' mode
   c. Open the destination_file in 'write' mode
   d. Pick every line in source_file using for loop (for _____ in _____)
   e. Use .write() function to write the source_file line by line in the destination_file

Exercise #3 (DT)

   1. Write a Python program that prints the current date in the format "YYYY-MM-DD".
   2. Write a Python program that calculates the date after a given number of days from the current date.
      HINT:
      a. Create a function that takes "number of days" as input. Take this input from the user at each prompt
      b. Store the current date in a variable
      c. For future date, use this current day and add the number of days using timedelta() method of datetime class
      d. After taking input from the user, display the number
   3. Today is 8 December, 2023. Change this time string to time.

Exercise #4 (DT) [PRO]

Write a Python program that compares two dates and prints whether the first date is before, after, or the same as the second date.

HINT:
 a. Create a function with 2 parameters as input - date1, date2
 b. Inside the function, using the if-elif-else statement print whether the date1 comes before date2, after date2, or on the same date as date1
 c. After calling the function and using it, ***print("The first date is", comparison_result, "the second date.")***