1. Write 100 integers created randomly into a file named *QuizInts.txt*. The numbers should be between 50 and 200 (inclusively). Each number should be on a new line.
   Hint: Your code will likely use the following two lines of code somewhere in your program.
   import random.
   random.randint(50,200)

2. Write a Python program that will open a file named *thisFile.txt* and write every other line into the file *thatFile.txt*

3. Create a file named *MyName.txt*, and write your name to it (your actual name). Then read the file and print the letters of your name one at a time where each letter is on a new line.

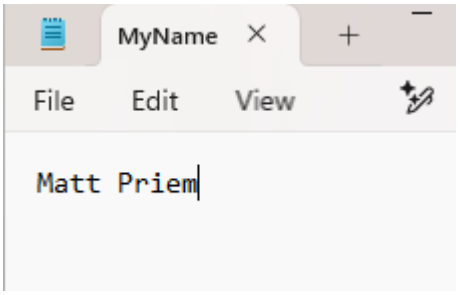


Figure 1: This is the file.

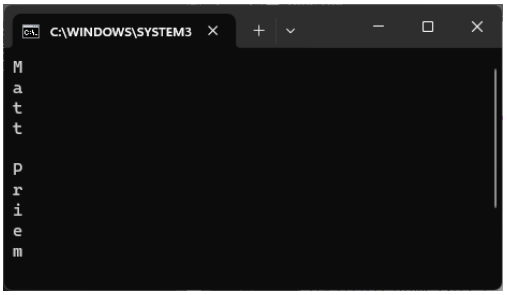
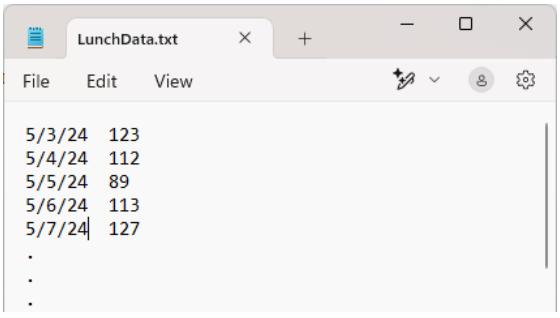


Figure 2: This is the output.

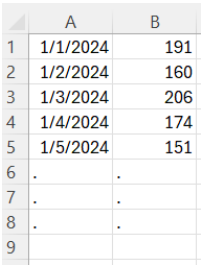
4. Assume you are working on a file named *MyCode.py* and there is a file *MyWords.txt* in the same working directory (same folder). The *MyWords.txt* file contains exactly 20 words all written on separate lines. Read the file, and then write the words to a new file in four lines of five words.

5. A local middle school is trying to count the total number of lunches they served last year. They have a text file named *LunchData.txt* that has a date and the number of lunches served on that date. There is one entry for every day last year. A portion of that file is displayed below. Write a program that calculates and then prints the total number of lunches served last year.



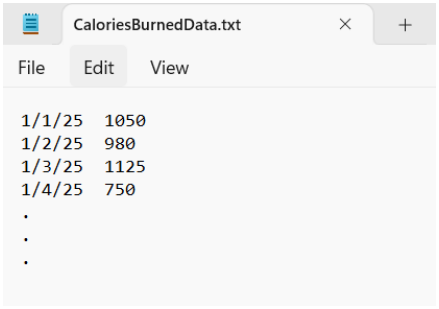
6. Assume you have a text file called *aMorePerfectUnion.txt* that contains a transcript of Barack Obama's March 18^{th}, 2008 speech *A More Perfect Union*. Create a dictionary consisting each word and the amount of times that word appears in the speech. Print the dictionary.

7. A city library keeps track of the number of visitors each day in a file named *LibraryVisitsData.csv*. The file contains a date and the number of visitors who entered the library on that date. There is one entry for each day of the year. A portion of that file is shown below. Write a program that reads the file, calculates, and prints the average number of visitors per day over the year.

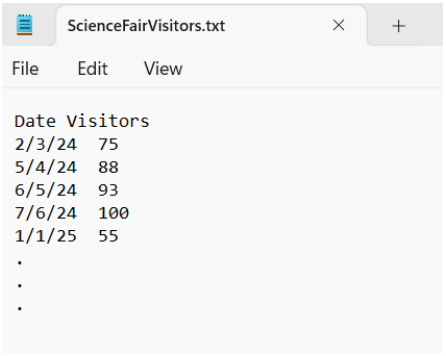


	A	B
1	1/1/2024	191
2	1/2/2024	160
3	1/3/2024	206
4	1/4/2024	174
5	1/5/2024	151
6	.	.
7	.	.
8	.	.
9		

8. A local gym keeps a log of how many calories were burned in workout sessions each day, stored in a file called *CaloriesBurnedData.txt*. Each line of the file includes the date and the total number of calories burned by all gym members on that day. A portion of the file is shown below. Write a program that reads the file and prints the day with the highest number of calories burned.



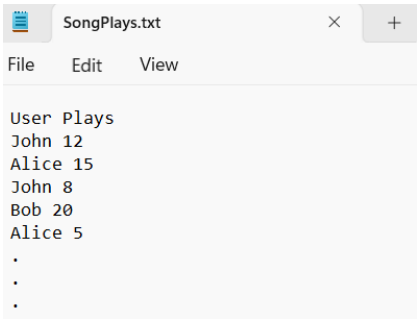
9. A school science fair recorded the daily number of students who visited each exhibit. This information is stored in a file called *ScienceFairVisitors.txt*, which includes a header row. Each line contains the date and the number of visitors for that day. Write a program that reads the file, and then prints the total number of visitors recorded over the entire period.



10. A book club tracks how many pages each member read, stored in a file named *PagesRead.csv*. The file includes a header row and contains the member's name and the number of pages they read for each book. Write a program that reads the file, stores the data in a dictionary where the key is the member name and the value is the total pages read by that member (across both books), and then prints each member's name and their total pages read.

	A	B	C
1	Name	book1-pages	book2-pages
2	Alice	30	23
3	Bob	25	45
4	Alice	40	15
5	Charlie	20	35
6	Bob	15	15

11. A music streaming app tracks how many times each user listens to different songs. The data is stored in a file called *SongPlays.txt*, which includes a header row. Each line contains the user's name and the number of times they played a song on a given day. Write a program that reads the file, uses a dictionary to store the total plays per user, and then prints out each user and their total number of song plays.



12. A weather station logs the temperature each day and stores the data in a file called *DailyTemperatures.csv*. The file includes a header row and each line contains the date and the temperature recorded on that day. Write a program that reads the file, stores all the temperatures in a list, and then prints the highest, lowest, and average temperature recorded.

	A	B	C
1	Date	Temperature	
2	1/1/2021	52	
3	2/2/2021	48	
4	3/3/2021	55	
5	4/4/2021	50	
6	5/5/2021	53	
7	.	.	
8	.	.	