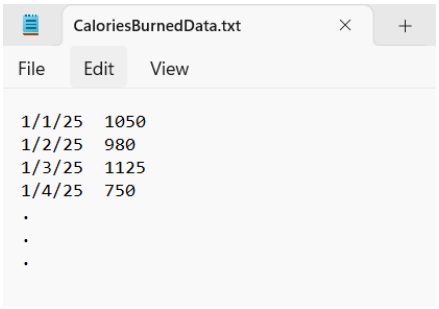
Lone Star
section 4

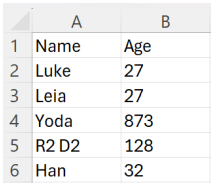
Files quiz

1. (14.1) 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. (14.2) 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.



3. (14.3) Create a python program that writes the name and age of everyone in your family to .csv file. There should be a column for the name with a header titled Name, and there should be a column for the age with a header titled Age. Do not use the csv module. You may make up fake family members if you choose. The result should look similar to the following.



	A	B
1	Name	Age
2	Luke	27
3	Leia	27
4	Yoda	873
5	R2 D2	128
6	Han	32

Dot Matrix
section 5

Files quiz

1. (14.1) 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.

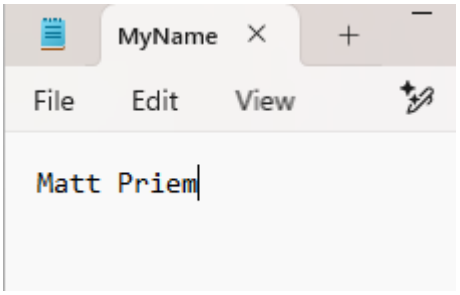


Figure 1: This is the file.

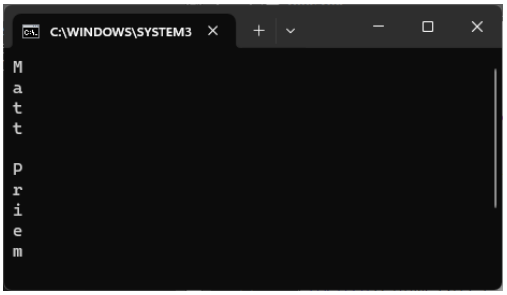


Figure 2: This is the output.

2. (14.2) 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		

3. (14.3) Create a python program that writes the name and age of everyone in your family to .csv file. There should be a column for the name with a header titled Name, and there should be a column for the age with a header titled Age. Do not use the csv module. You may make up fake family members if you choose. The result should look similar to the following.

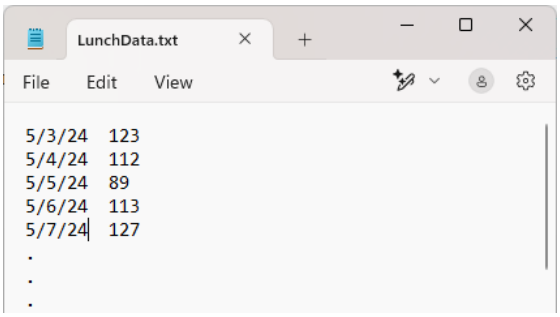
	A	B
1	Name	Age
2	Luke	27
3	Leia	27
4	Yoda	873
5	R2 D2	128
6	Han	32

Dark Helmet
section 4

Files quiz

1. (14.1) 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.

2. (14.2) 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.



3. (14.3) Create a python program that writes the name and age of everyone in your family to .csv file. There should be a column for the name with a header titled Name, and there should be a column for the age with a header titled Age. Do not use the csv module. You may make up fake family members if you choose. The result should look similar to the following.

	A	B
1	Name	Age
2	Luke	27
3	Leia	27
4	Yoda	873
5	R2 D2	128
6	Han	32

President Skroob
section 1

Files quiz

1. (14.1) Write a Python program that will open a file named *thisFile.txt* and write every other line into the file *thatFile.txt*

2. (14.2) 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		

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	A	B
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2	Luke	27
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