1. Take an integer n as input (0<=n<=9) and print the following pattern with numbers

Example:

n=	=5				n=	:7					
				1							1
			1	2						1	2
		1	2	3					1	2	3
	1	2	3	4				1	2	3	4
1	2	3	4	5			1	2	3	4	5
						1	2	3	4	5	6
					1	2	3	4	5	6	7

- 2. Make a Double Ended Queue class with the following functionalities. Add codes to test the functionalities too.
- A) PUSH FRONT: Insert an element at the beginning of the queue.
- B) PUSH BACK: Insert an element at the end of the queue.
- C) POP FRONT: Remove the first element.
- D) POP BACK: Remove the last element.
- E) FRONT: Return/print the first element.
- F) BACK: Return/print the last element.

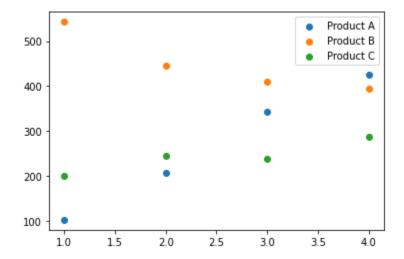
Example:

Input.txt	Actions by your program:
B 10	Inserts 10
A 21	Inserts 21 at front
B 13	Inserts 13 at back
F	Prints 13
С	Removes 21 from front
Е	Prints 10

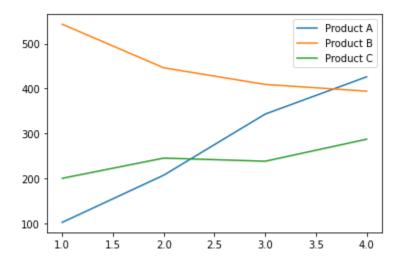
3. Given sales data in csv format (SalesData.csv), output scatter plot and line plots as shown below.

Day	Product A	Product B	Product C
1	102	543	200
2	207	446	245
3	343	409	238
4	426	394	287

Scatter Plot:



Line Plot:



Instructions:

- 1. Code each problem in separate python files. (problem1.py, problem2.py etc.)
- 2. Create a folder. Rename it with your student ID.
- 3. Put all your python files into the folder.
- 4. ZIP the folder and upload to LMS submission window.
- 5. Deadline: Saturday 11:55 PM.
- 6. Do not copy! Copy checker will be used during evaluation. Negative marking is possible.