DATA SCIENCE

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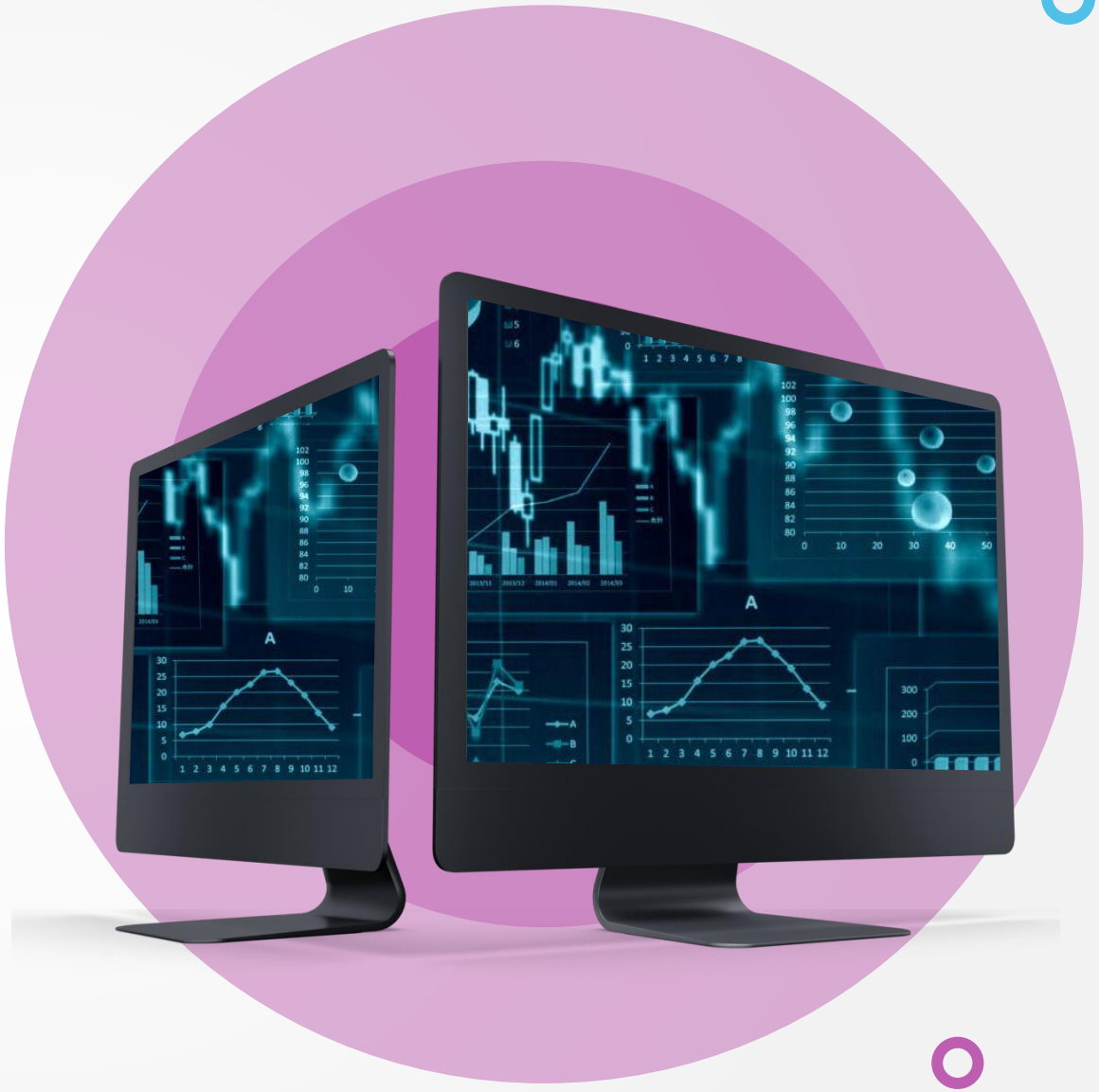


Course Code : CSC 461

TOPICS WE CHOOSE

We Gather data of Stock Exchange And than we visualize the data using python.

STOCK EXCHANGE

This Document Includes

- Data Set
- Origin of Data
- Language: Python
- IDE : PYCHARM
- Libraries
- SCREEN SHOTS
- Stock Exchange of Pakistan (2019-2022)
- Dataset Date
- Attributes/ Records
- Format : CSV

Why We Choose This Data

Stock Exchange

This dataset is taken from the website “World Stock Exchange”. They provide trusted source of information and tools that inspire and empower us understand and share the Stock Exchange Information.

And the purpose of this data set is to get the knowledge of World Stock market and The current trends that is being followed and few other things like stock rates, Current prices, And Unit sales etc.

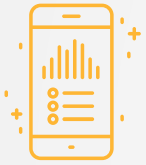
2019-2022

8 Attributes

40 Record

About Data Set And Visualization

Stock Exchange



Attributes

Our Data set Has

8 Attributes

Data Records

Our Data set Has

40 Records

File Type

CSV

Libraries

Panda, MAT-PLOT, NUMPY,

SEABORN

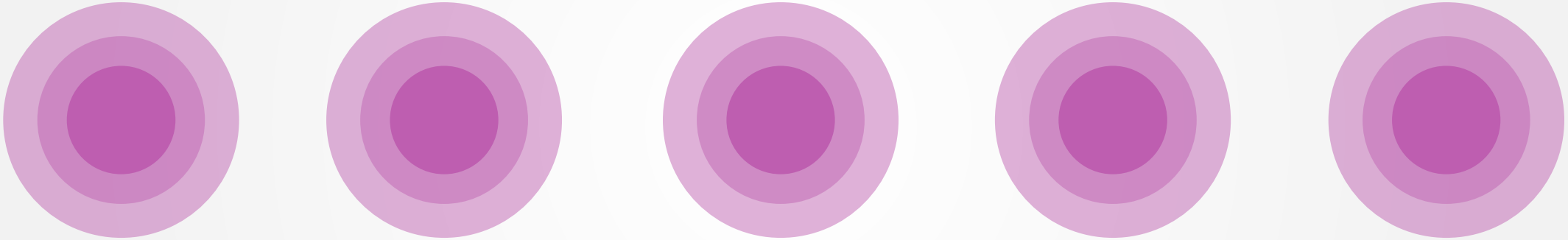
How we Get The Data (Acknowledgment)

Stock Exchange

We have used EDA to analyze the data of the of the Stock Exchange. We download the raw form data which has approximately 8000+ record and most of the records are missing and many duplication. To improve our data first we reduce a lot of data than we watch a lot of YouTube (Code with HARRY), (Garry Smasher) videos for data cleaning and buy applying those techniques we clean a little bit of data and after that we manually clean the data and after cleaning all the data, we left with approximately 40 records and 8 attributes. After all of this we use python to visualize the data in the form of charts.

Attributes And their Types

Stock Market



Invoice Number

Numerical {Interval}

Stock Code

Numerical {Interval}

Description

Textual data

Quantity

Numerical

Date

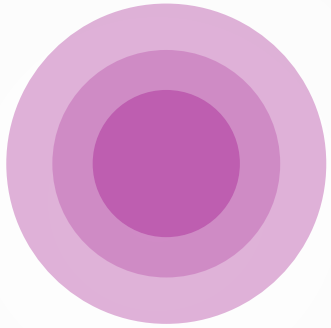
Categorical {Nominal}

Attributes And their Types

Stock Market

Unit Price

Numerical {Ratio}



Customer Id

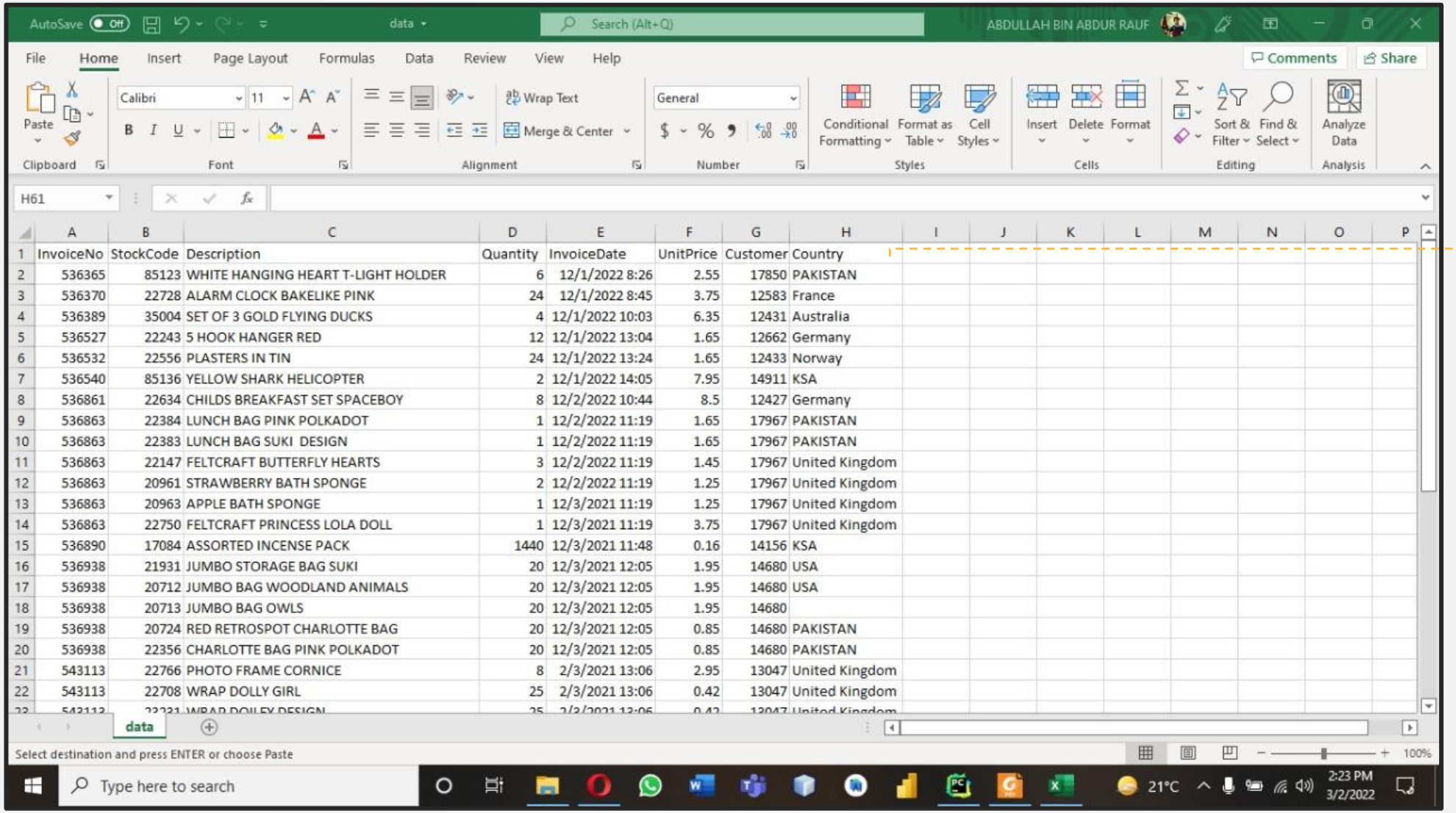
Numerical

Country

Categorical {Nominal}

Screen Shot (Data)

Stock Exchange



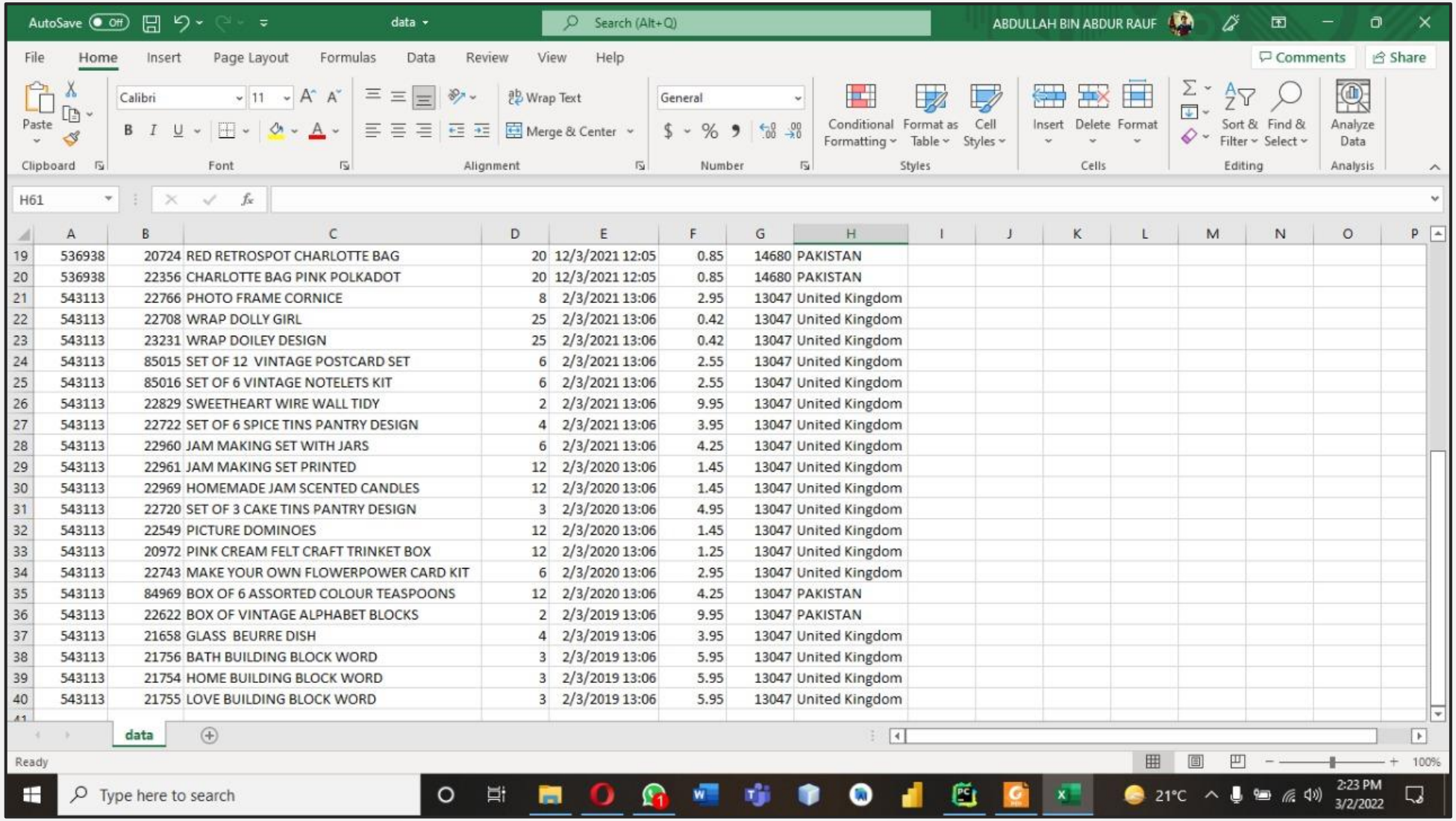
	A	B	C	D	E	F	G	H
1	InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	Customer	Country
2	536365	85123	WHITE HANGING HEART T-LIGHT HOLDER	6	12/1/2022 8:26	2.55	17850	PAKISTAN
3	536370	22728	ALARM CLOCK BAKELIKE PINK	24	12/1/2022 8:45	3.75	12583	France
4	536389	35004	SET OF 3 GOLD FLYING DUCKS	4	12/1/2022 10:03	6.35	12431	Australia
5	536527	22243	5 HOOK HANGER RED	12	12/1/2022 13:04	1.65	12662	Germany
6	536532	22556	PLASTERS IN TIN	24	12/1/2022 13:24	1.65	12433	Norway
7	536540	85136	YELLOW SHARK HELICOPTER	2	12/1/2022 14:05	7.95	14911	KSA
8	536861	22634	CHILDS BREAKFAST SET SPACEBOY	8	12/2/2022 10:44	8.5	12427	Germany
9	536863	22384	LUNCH BAG PINK POLKADOT	1	12/2/2022 11:19	1.65	17967	PAKISTAN
10	536863	22383	LUNCH BAG SUKI DESIGN	1	12/2/2022 11:19	1.65	17967	PAKISTAN
11	536863	22147	FELTCRAFT BUTTERFLY HEARTS	3	12/2/2022 11:19	1.45	17967	United Kingdom
12	536863	20961	STRAWBERRY BATH SPONGE	2	12/2/2022 11:19	1.25	17967	United Kingdom
13	536863	20963	APPLE BATH SPONGE	1	12/3/2021 11:19	1.25	17967	United Kingdom
14	536863	22750	FELTCRAFT PRINCESS LOLA DOLL	1	12/3/2021 11:19	3.75	17967	United Kingdom
15	536890	17084	ASSORTED INCENSE PACK	1440	12/3/2021 11:48	0.16	14156	KSA
16	536938	21931	JUMBO STORAGE BAG SUKI	20	12/3/2021 12:05	1.95	14680	USA
17	536938	20712	JUMBO BAG WOODLAND ANIMALS	20	12/3/2021 12:05	1.95	14680	USA
18	536938	20713	JUMBO BAG OWLS	20	12/3/2021 12:05	1.95	14680	
19	536938	20724	RED RETROSPOT CHARLOTTE BAG	20	12/3/2021 12:05	0.85	14680	PAKISTAN
20	536938	22356	CHARLOTTE BAG PINK POLKADOT	20	12/3/2021 12:05	0.85	14680	PAKISTAN
21	543113	22766	PHOTO FRAME CORNICE	8	2/3/2021 13:06	2.95	13047	United Kingdom
22	543113	22708	WRAP DOLLY GIRL	25	2/3/2021 13:06	0.42	13047	United Kingdom

Records

Attributes

Screen Shot (Data)

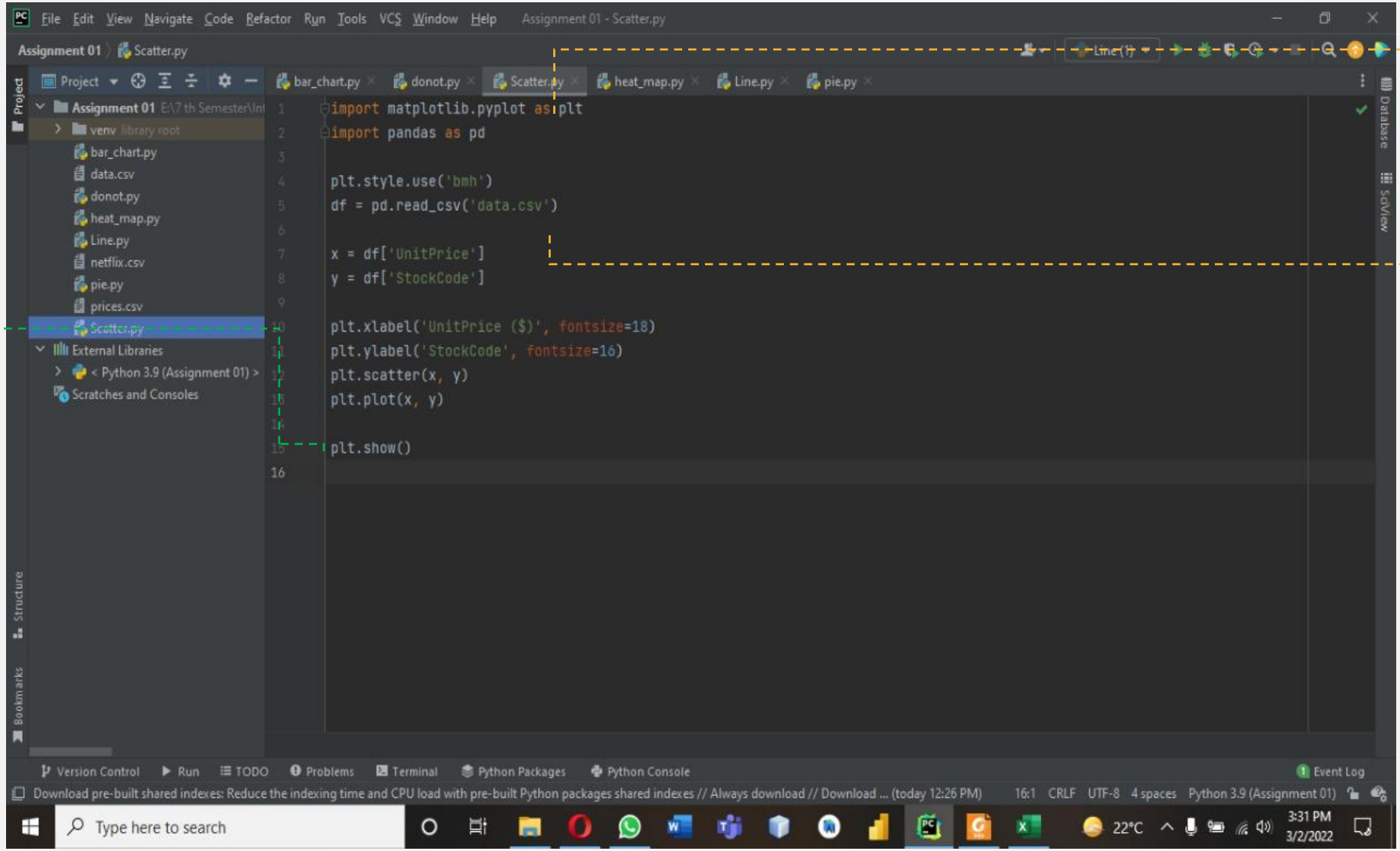
Stock Exchange



	A	B	C	D	E	F	G	H
19	536938	20724	RED RETROSPOT CHARLOTTE BAG	20	12/3/2021 12:05	0.85	14680	PAKISTAN
20	536938	22356	CHARLOTTE BAG PINK POLKADOT	20	12/3/2021 12:05	0.85	14680	PAKISTAN
21	543113	22766	PHOTO FRAME CORNICE	8	2/3/2021 13:06	2.95	13047	United Kingdom
22	543113	22708	WRAP DOLLY GIRL	25	2/3/2021 13:06	0.42	13047	United Kingdom
23	543113	23231	WRAP DOILEY DESIGN	25	2/3/2021 13:06	0.42	13047	United Kingdom
24	543113	85015	SET OF 12 VINTAGE POSTCARD SET	6	2/3/2021 13:06	2.55	13047	United Kingdom
25	543113	85016	SET OF 6 VINTAGE NOTELETS KIT	6	2/3/2021 13:06	2.55	13047	United Kingdom
26	543113	22829	SWEETHEART WIRE WALL TIDY	2	2/3/2021 13:06	9.95	13047	United Kingdom
27	543113	22722	SET OF 6 SPICE TINS PANTRY DESIGN	4	2/3/2021 13:06	3.95	13047	United Kingdom
28	543113	22960	JAM MAKING SET WITH JARS	6	2/3/2021 13:06	4.25	13047	United Kingdom
29	543113	22961	JAM MAKING SET PRINTED	12	2/3/2020 13:06	1.45	13047	United Kingdom
30	543113	22969	HOMEMADE JAM SCENTED CANDLES	12	2/3/2020 13:06	1.45	13047	United Kingdom
31	543113	22720	SET OF 3 CAKE TINS PANTRY DESIGN	3	2/3/2020 13:06	4.95	13047	United Kingdom
32	543113	22549	PICTURE DOMINOES	12	2/3/2020 13:06	1.45	13047	United Kingdom
33	543113	20972	PINK CREAM FELT CRAFT TRINKET BOX	12	2/3/2020 13:06	1.25	13047	United Kingdom
34	543113	22743	MAKE YOUR OWN FLOWERPOWER CARD KIT	6	2/3/2020 13:06	2.95	13047	United Kingdom
35	543113	84969	BOX OF 6 ASSORTED COLOUR TEASPOONS	12	2/3/2020 13:06	4.25	13047	PAKISTAN
36	543113	22622	BOX OF VINTAGE ALPHABET BLOCKS	2	2/3/2019 13:06	9.95	13047	PAKISTAN
37	543113	21658	GLASS BEURRE DISH	4	2/3/2019 13:06	3.95	13047	United Kingdom
38	543113	21756	BATH BUILDING BLOCK WORD	3	2/3/2019 13:06	5.95	13047	United Kingdom
39	543113	21754	HOME BUILDING BLOCK WORD	3	2/3/2019 13:06	5.95	13047	United Kingdom
40	543113	21755	LOVE BUILDING BLOCK WORD	3	2/3/2019 13:06	5.95	13047	United Kingdom

Screen Shot (Code Python)

Scatter Graph CODE



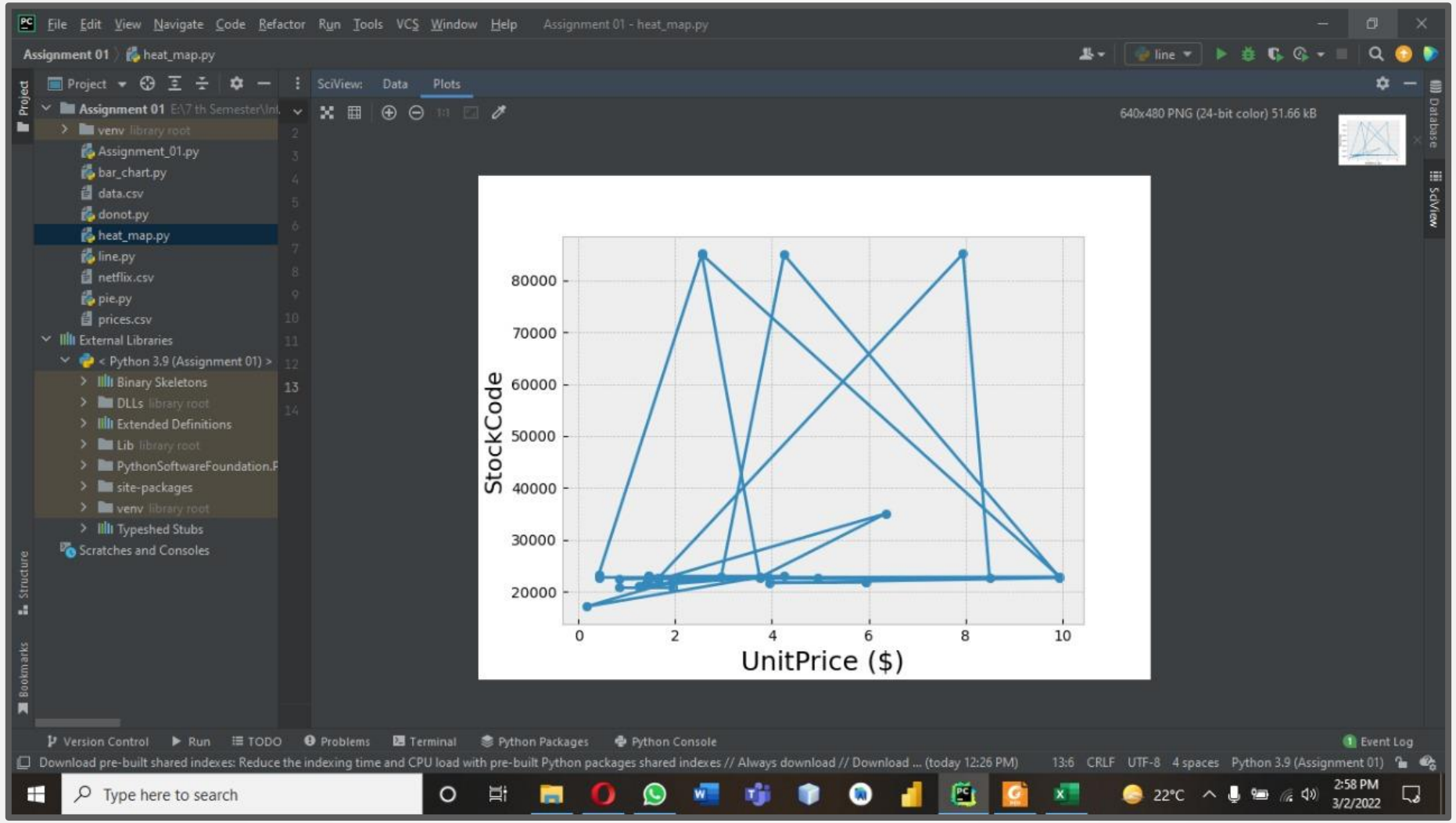
Libraries

This will read the CSV file

This Will Plot the Scatter Graph

Screen Shot (Output Python)

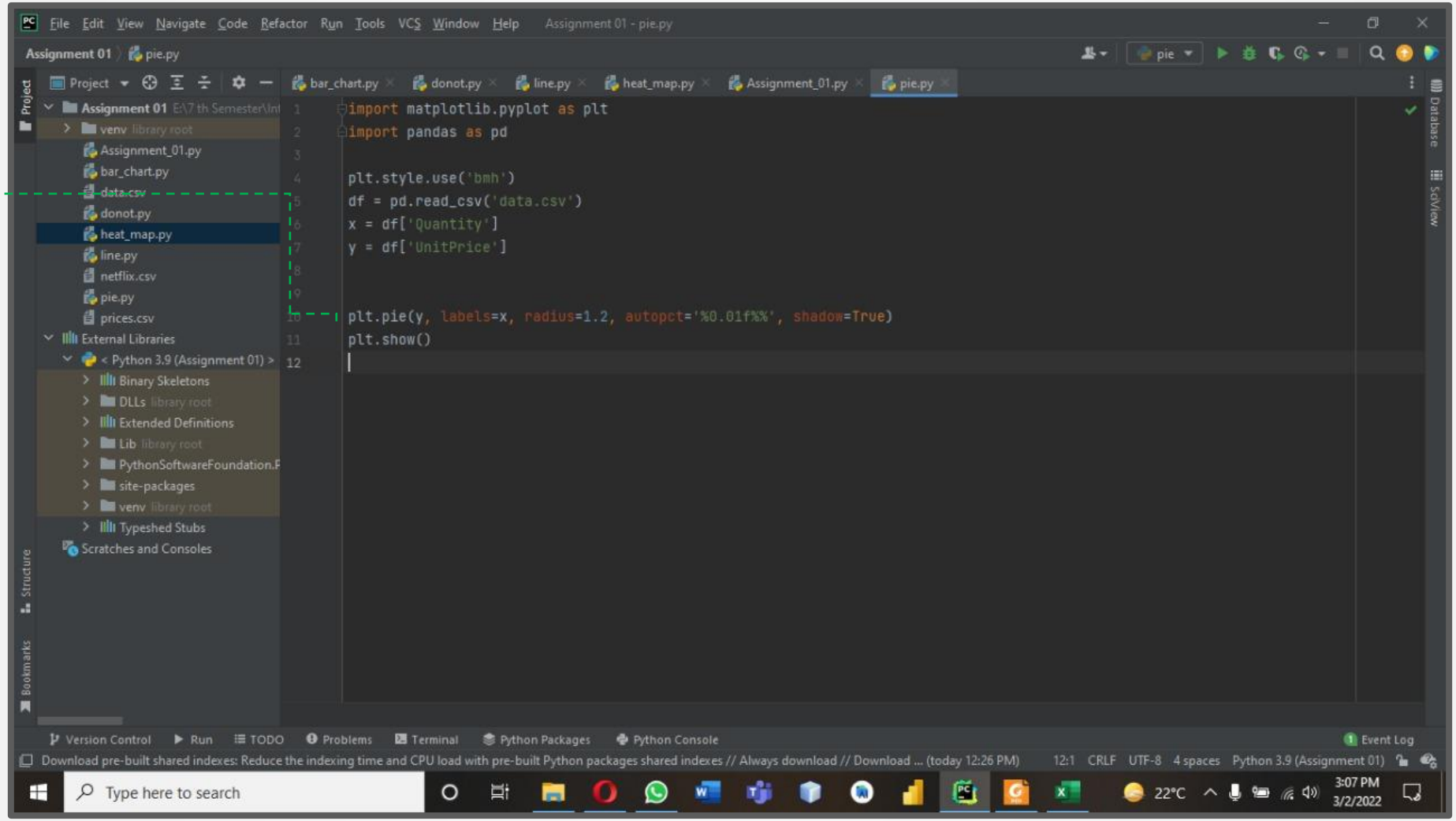
Scatter CHART OUTPUT



Screen Shot (Code Python)

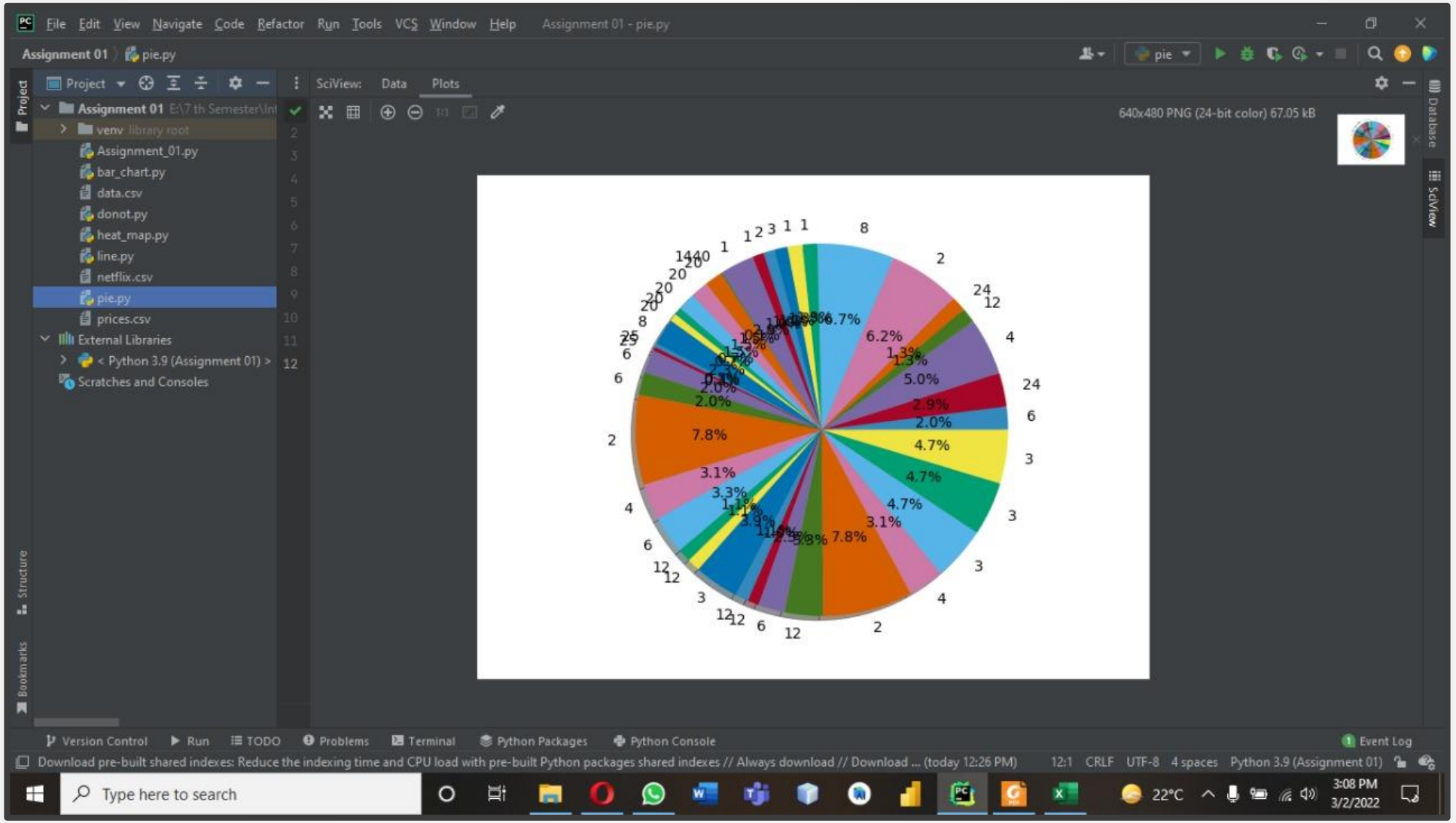
PI CHART CODE

Pi Chart Code line



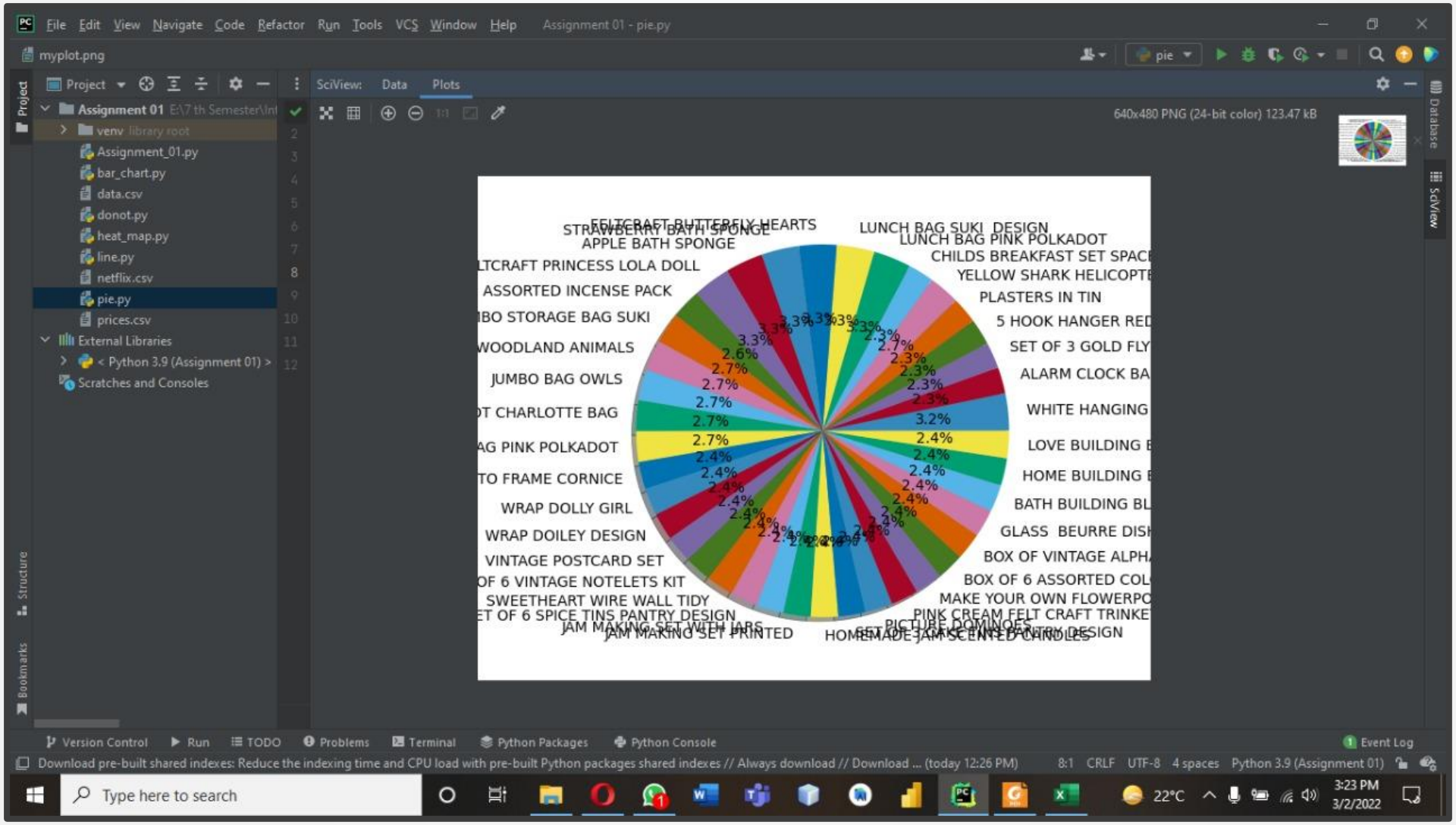
Screen Shot (Output Python)

LINE CHART OUTPUT



Screen Shot (Output Python)

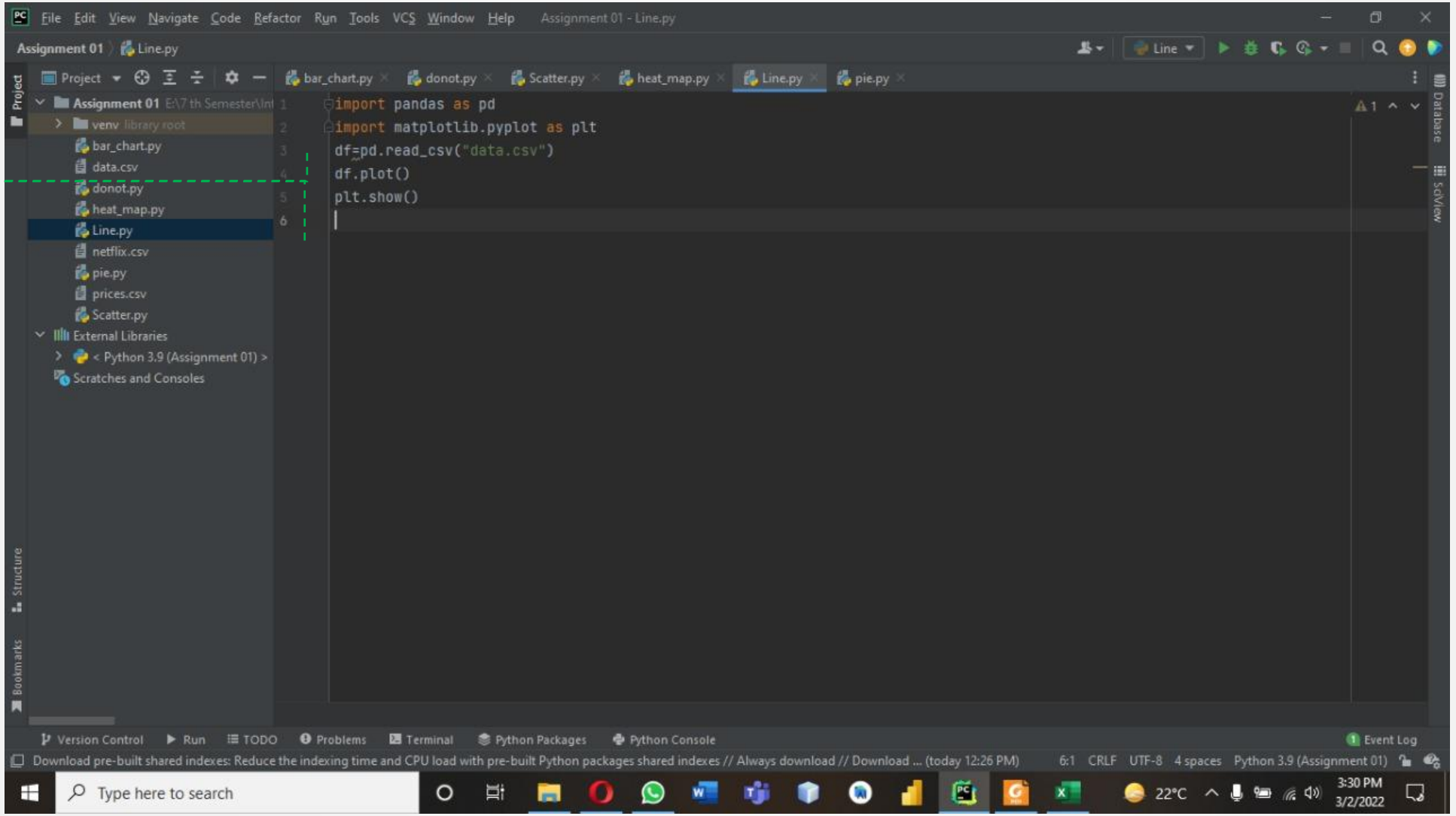
LINE CHART OUTPUT



Screen Shot (Code Python)

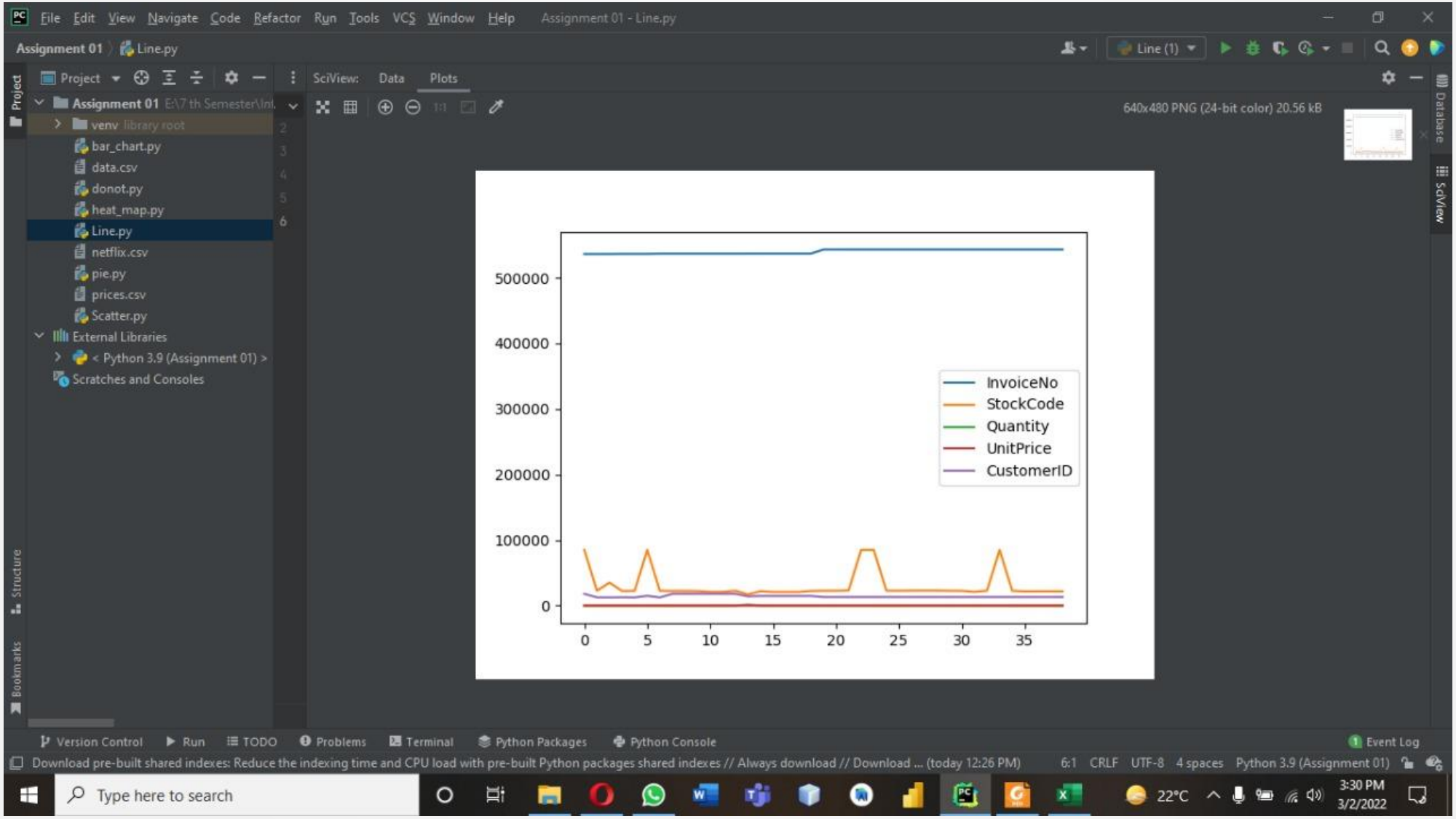
LINE Graph CODE

Line Graph



Screen Shot (Output Python)

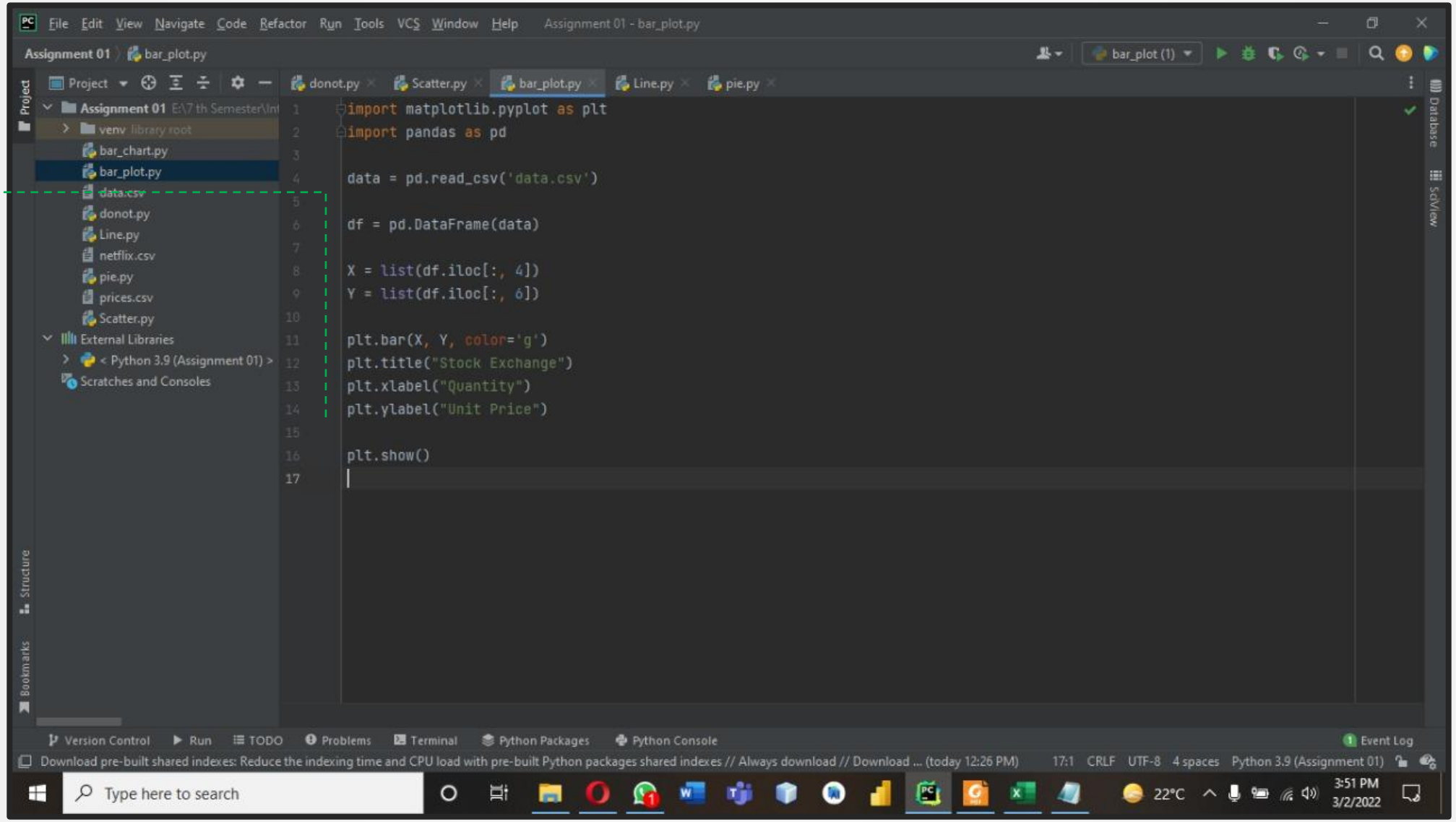
LINE GRAPH OUTPUT



Screen Shot (Code Python)

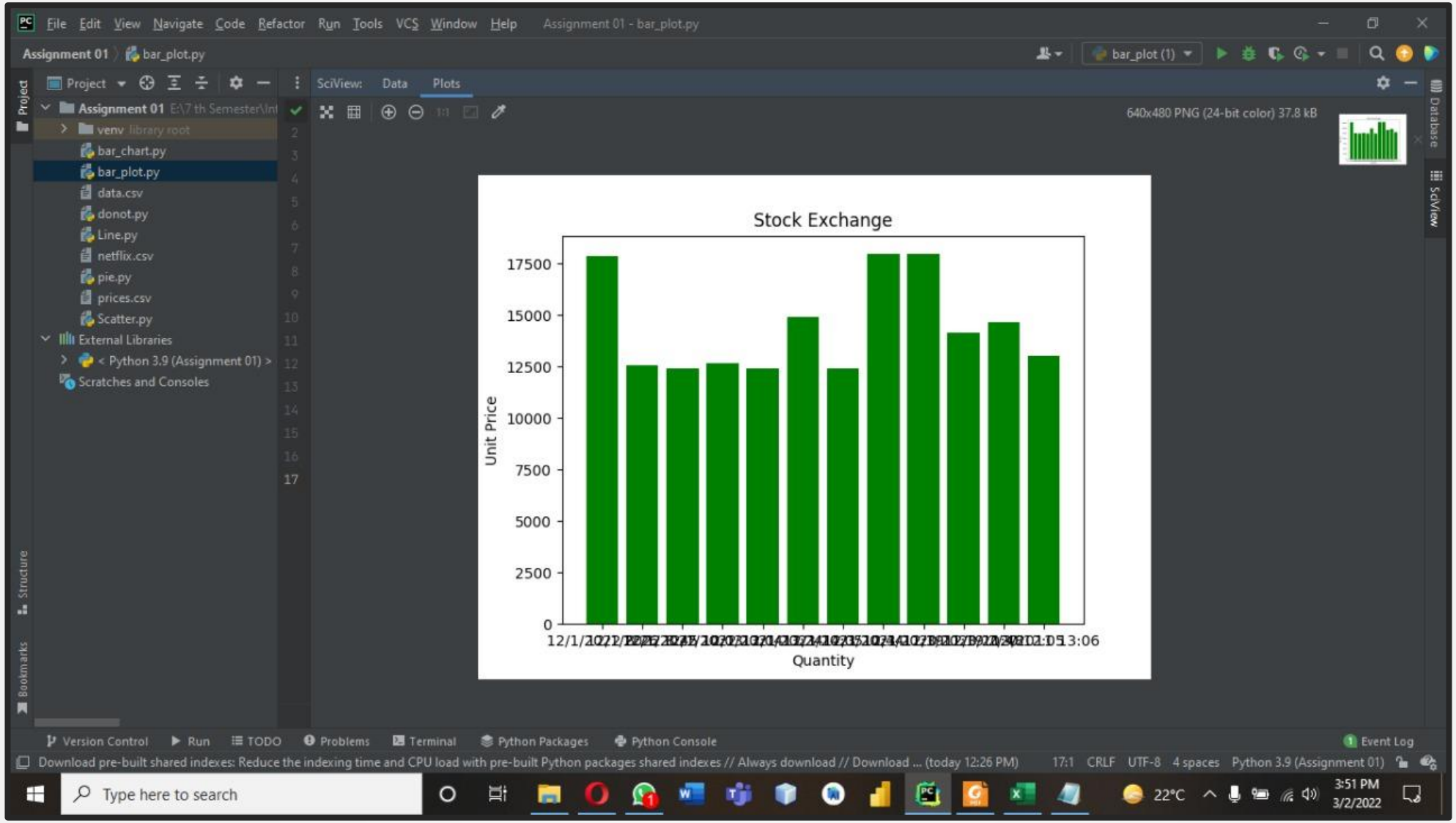
Bar Plot Graph

Bar Plot



Screen Shot (Output Python)

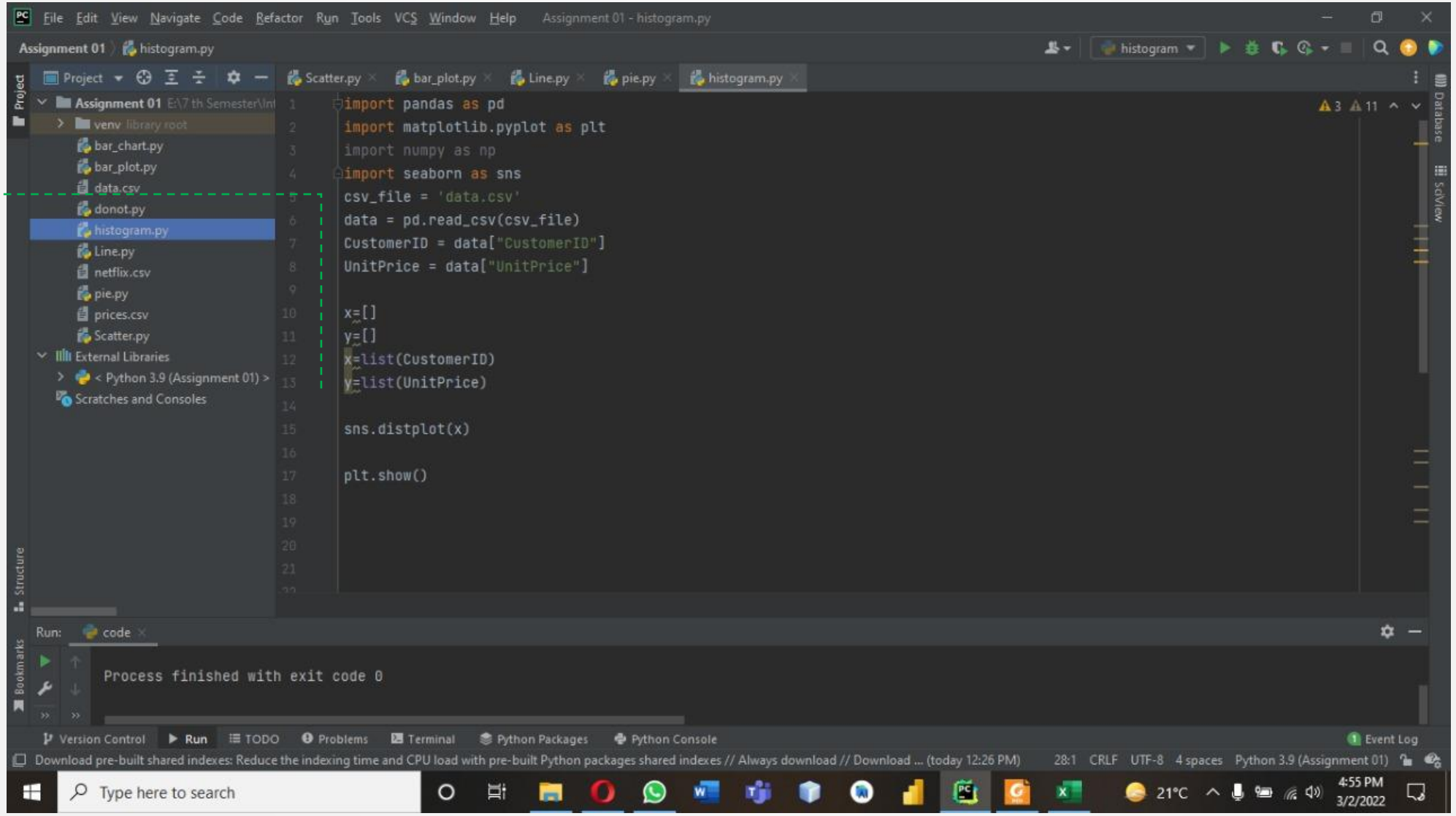
LINE GRAPH OUTPUT



Screen Shot (Code Python)

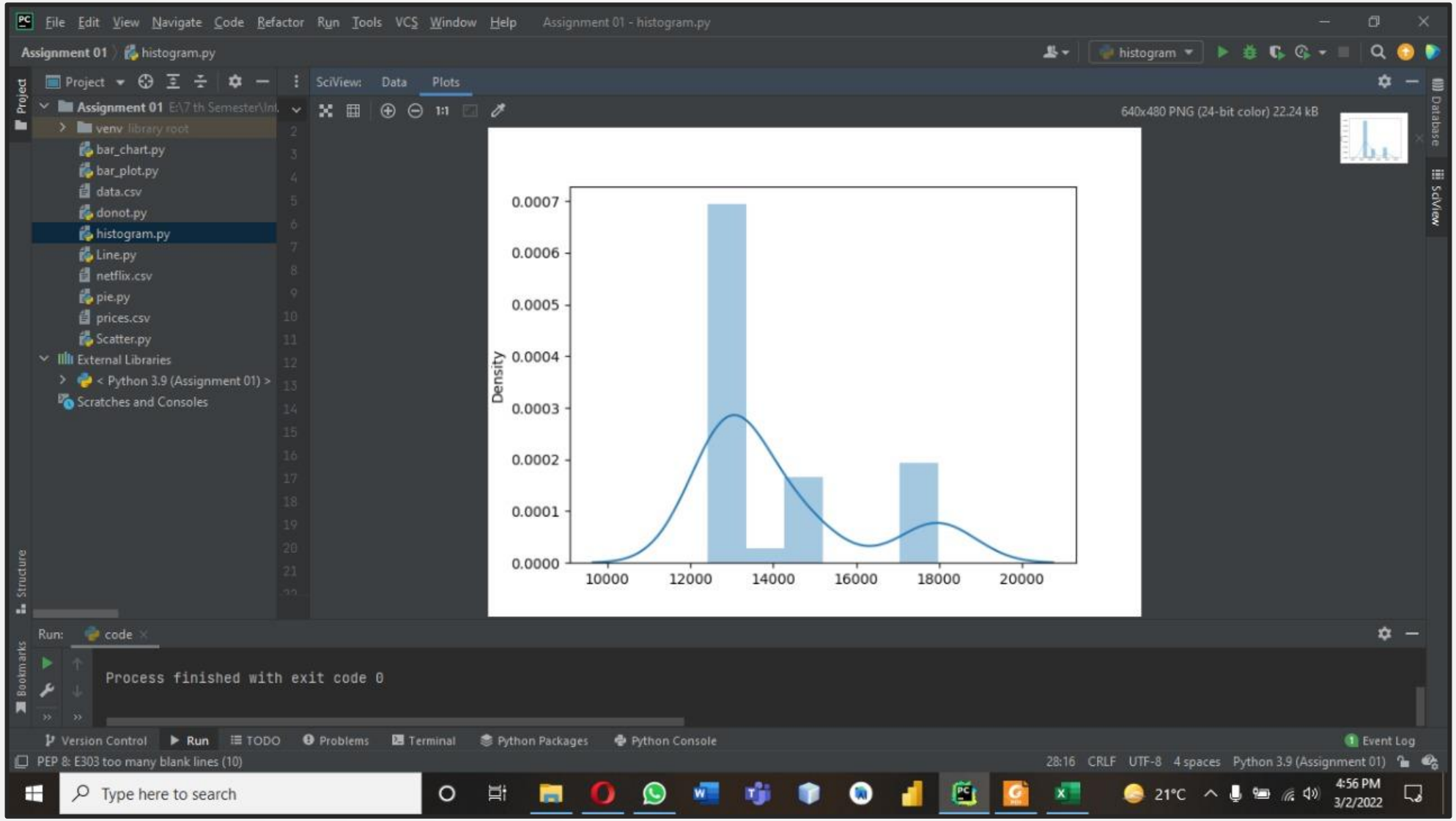
Histogram

Histogram



Screen Shot (Output Python)

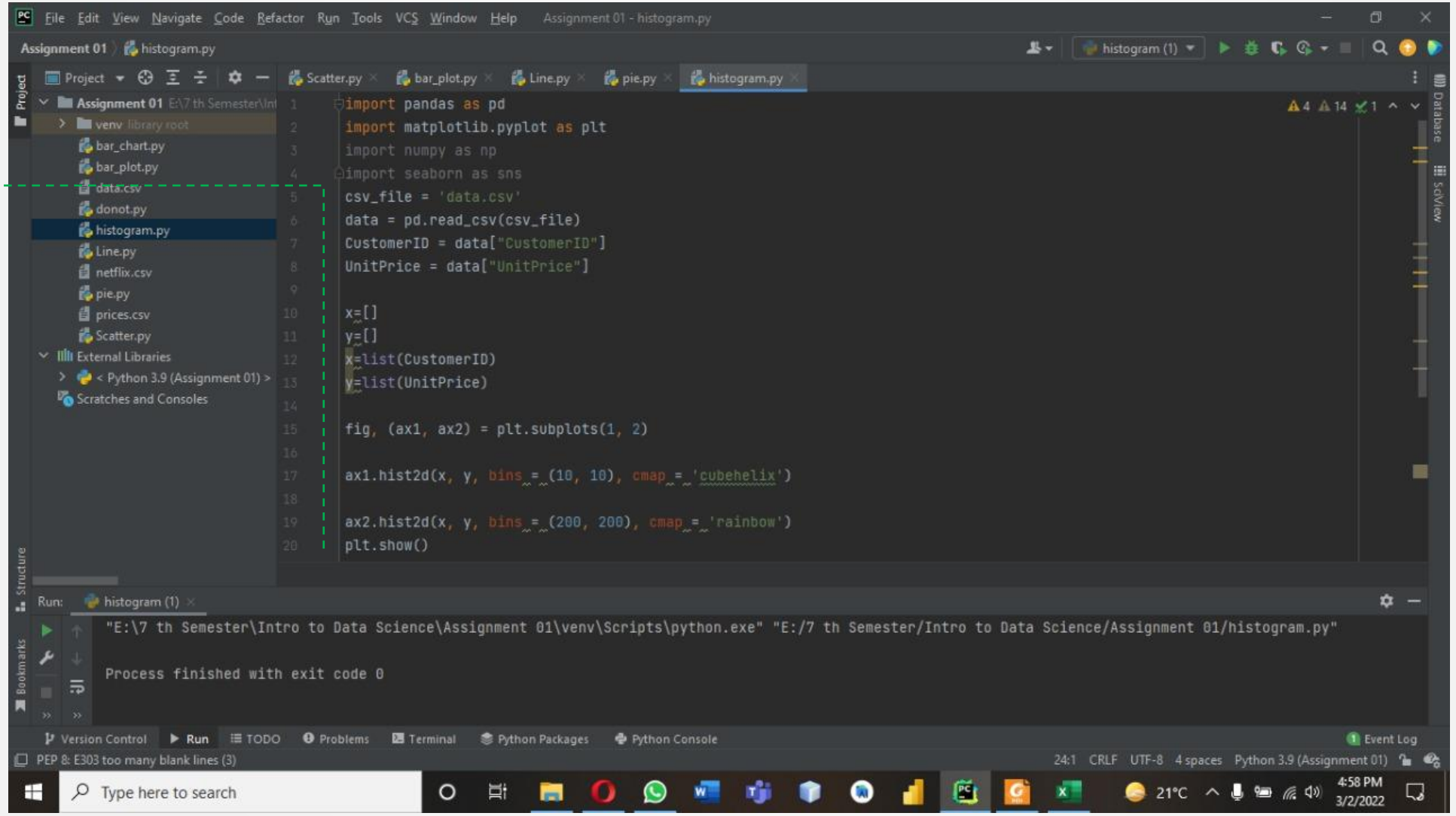
Histogram



Screen Shot (Code Python)

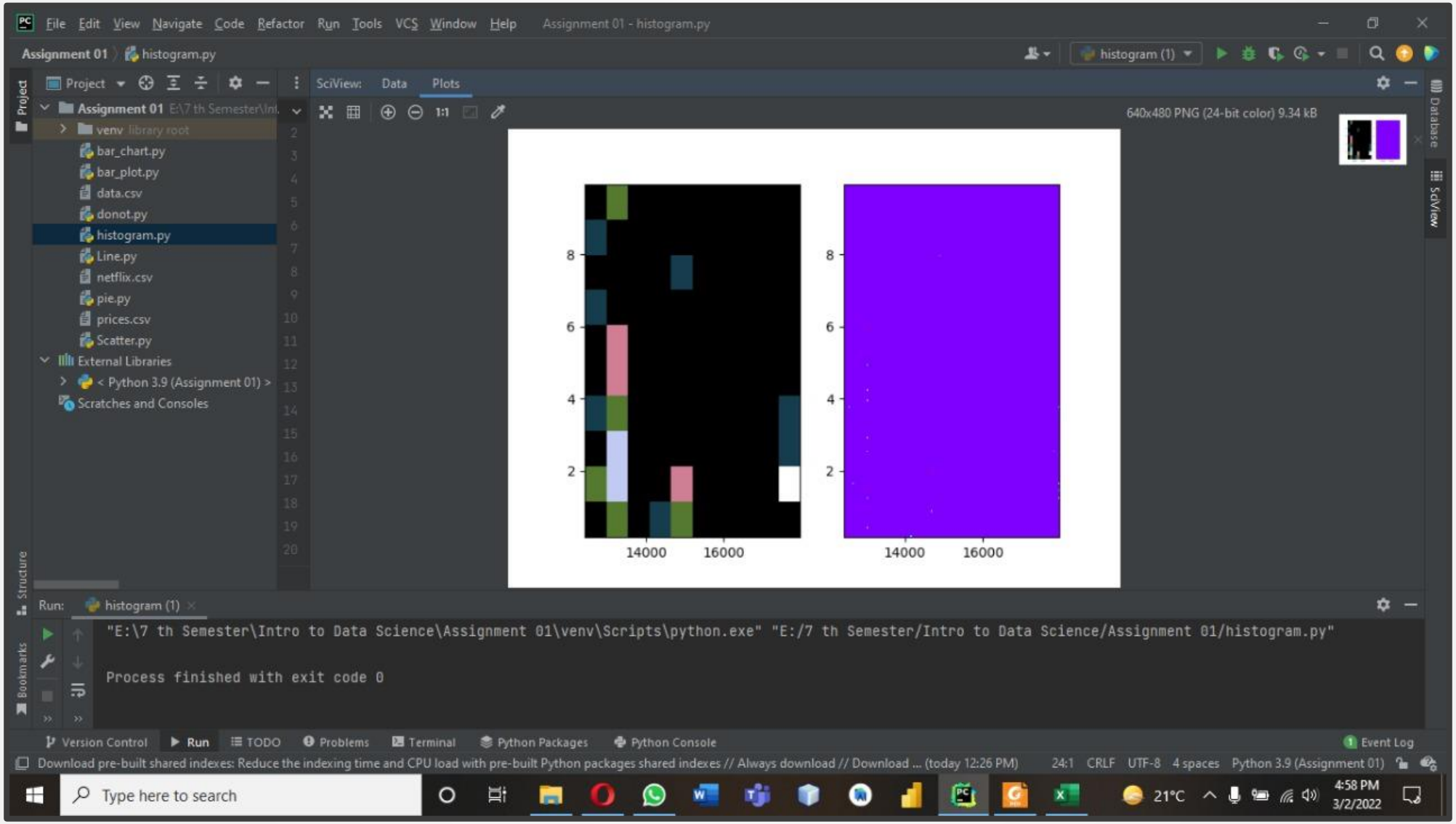
Seaborn Histogram

Seaborn Histogram



Screen Shot (Output Python)

Sea Histogram



Group Details

Group 1

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Wah Campus

COMSATS ISLAMABAD

ENDING

STOCK EXCHANGE

References

https://www.youtube.com/watch?v=9m4n2xVzk9o&t=265s

https://youtu.be/uufDGjTuq34

https://www.kaggle.com/carrie1/ecommerce-data