```
'''10.B.1: ASSIGNMENT
PROBLEM STATEMENT
Matplotlib

- Import data (data_1.csv, data_2.csv) in pandas
dataframes

- Plot them in same graph window With respective
lables on axis(x/y)
END OF ASSESSMENT
data_1.csv data_1.csv
data_2.csv data_2.csv'''
import pandas as pd
import seaborn as sns
import numpy as np
import matplotlib.pyplot as plt

v1=pd.read_csv("F:/pythonProject1/data_1.csv")
print(v1)
v2=pd.read_csv("F:/pythonProject1/data_2.csv")
print(v2)
plt.scatter(v1,v2)
plt.show()
x=v1.value
y=v2.value
#plt.scatter(x,y)
#plt.show()

#plt.scatter(x,y,marker="*")
```

```
#plt.show()
#plotting x and y points
#plt.plot(v1,v2)
#plt.show()

# plt.plot(v1,v2,"o")
# print(plt.show())

# plt.plot(v1)
#plt.show()

# plt.plot(v2)
#plt.show()

# plt.plot(v1, marker="o")
# plt.show()

# plt.plot(v2, marker="o")
# plt.show()

# plt.plot(v1, v2, marker="*" )
# plt.show()

# plt.plot(v1,v2, marker="D")
# plt.show()

# plt.plot(v1, marker="o", ms=20)
# plt.show()
```

```
# plt.plot(v1, marker="o", ms=20, mec="r")
# plt.show()

# plt.plot(v1, marker="o", ms=20, mfc="g")
# plt.show()

# plt.plot(v1,marker="o", ms=20, mfc="b")
# plt.show()

# plt.plot(v1, marker="o", ms=20, mec='r',mfc="r")
# plt.show()

# plt.plot(v1, v2, marker="o", ms=15,
mec="r",mfc="g")
# plt.show()

# plt.plot(v1,v2,marker="o", ms=15, mec='hotpink',
mfc='hotpink')
# plt.show()

# plt.plot(v1, linestyle='dotted')
# plt.show()

# plt.plot(v2, linestyle='dotted')
# plt.show()

# plt.plot(v1,color='r')
# plt.show()
```

```
#linewidth
# plt.plot(v1, linewidth='20.5')
# plt.show()

# plt.plot(v2, linewidth='20.5')
# plt.show()

# plt.plot(v1,v2, linewidth='10.5')
# plt.show()

#multiple lines
# plt.plot(v1)
# plt.plot(v2)
# plt.show()

# plt.plot(x,y)
# plt.title("dataset")
# plt.xlabel("value1")
# plt.ylabel("value2")
# plt.show()


# plt.plot(x,y)
# plt.title("dataset")
# plt.xlabel("value1")
# plt.ylabel("value2")
# plt.grid()
# plt.show()
```

```
# plt.plot(x,y)
# plt.title("dataset")
# plt.xlabel("value1")
# plt.ylabel("value2")
# plt.grid(color="green", linestyle="--",
linewidth=0.5)
# plt.show()


# plt.plot(v1)
# plt.plot(v2)
# plt.subplot(1, 2, 2)
# plt.plot(v1, v2)
# plt.show()

# plt.scatter(x, y, marker="*")
# plt.show()

# plt.scatter(x, y)
# plt.xlabel("value1")
# plt.ylabel("value2")
# plt.show()

# plt.plot(v1)
# plt.plot(v2)
# plt.scatter(v1, v2)
# plt.show()

# plt.scatter(v1, v2, color="hotpink")
```

```
# plt.scatter(v1, v2, color='#88c999')
# plt.show()


'''color each dot'''
#
colors=np.array(["red","green","blue","yellow","pink
","black","orange","purple","beige","brown","gray","
cyan","magenta","red","green","red","green","blue",
"yellow","pink"])
# plt.scatter(x, y, c=colors )
# plt.show()

# plt.scatter(x, y, c=colors, cmap='viridis')
# plt.colorbar()
# plt.show()

import matplotlib.pyplot as plt
import  numpy as np

x=np.random.randint(100, size=(100))
y=np.random.randint(100, size=(100))
colors=np.random.randint(100, size=(100))
sizes=10 * np.random.randint(100, size=(100))

 plt.scatter(x, y, c=colors, s=sizes, alpha=0.5,
cmap='nipy_spectral')
 plt.colorbar()
 plt.show()
```

```
plt.scatter(x, y, s=sizes, alpha=0.5)
plt.show()

plt.scatter(x, y, c=colors, cmap='viridis')
plt.show()

plt.scatter(x, y, s=sizes, alpha=0.5)
plt.show()


'''matplotlib bars'''

plt.bar(x, y)
plt.show()

plt.barh(x, y)
plt.show()

plt.bar(x, y, color="red" )
plt.show()

plt.bar(x, y, color="green")
plt.show()

plt.bar(x, y, width=0.1)
plt.show()

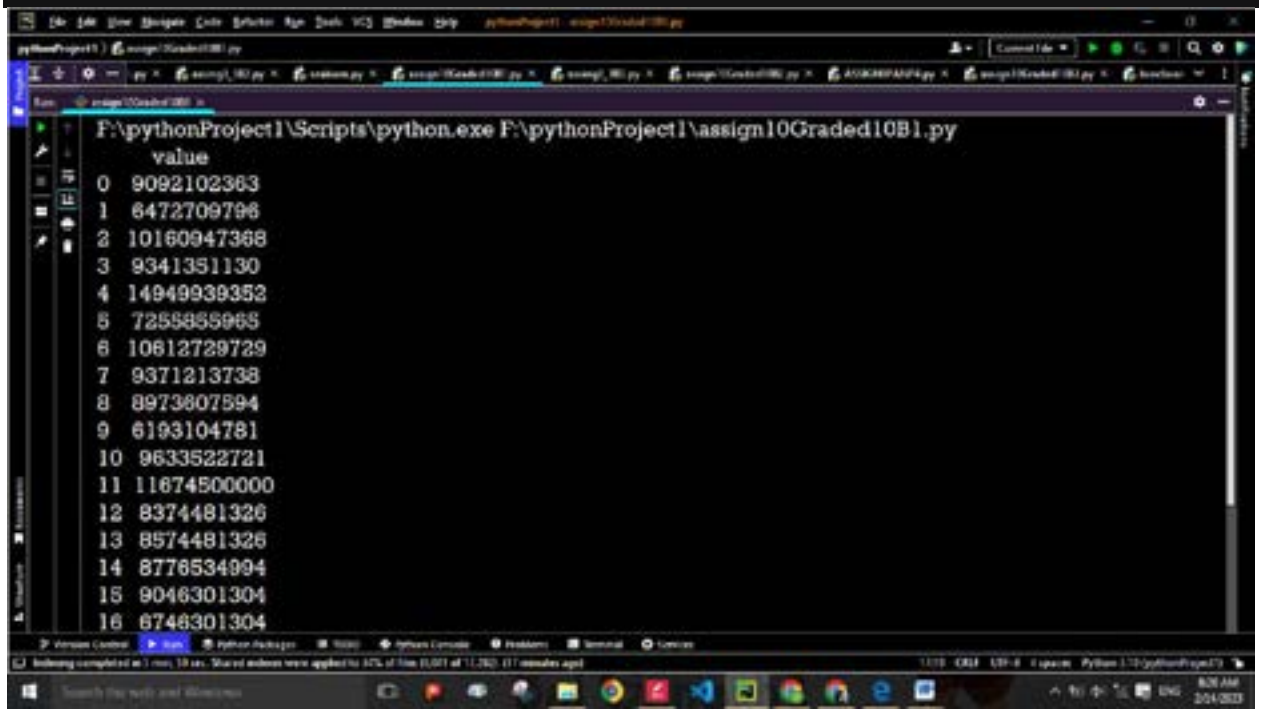
plt.hist(x)
```

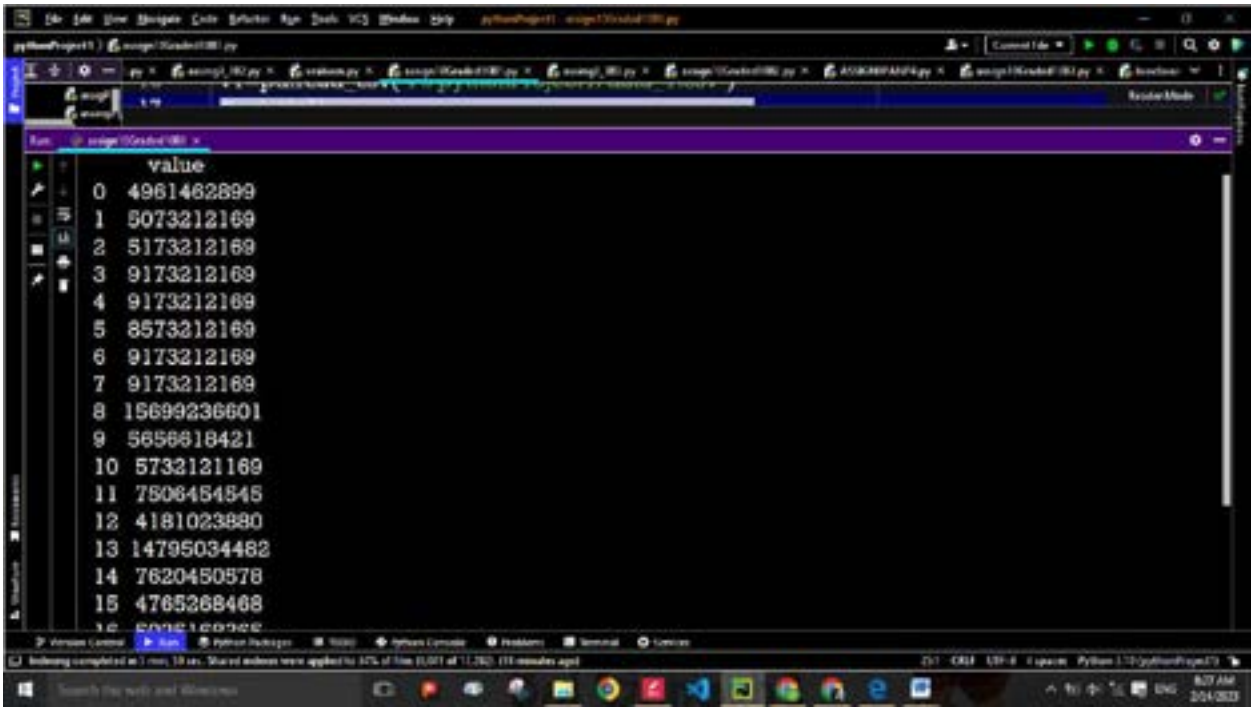
```
plt.show()

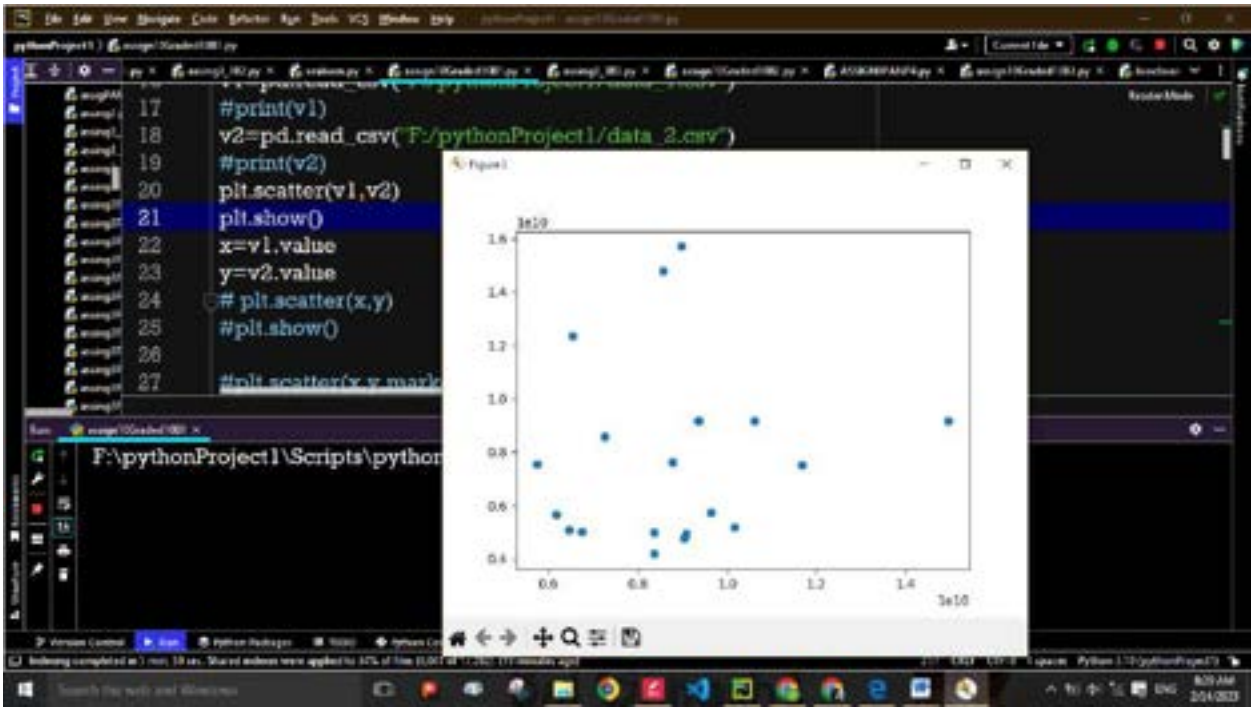
plt.hist(y)
plt.show()

plt.pie(y)
plt.show()

plt.pie(x)
plt.show()
```




value
0 4961462899
1 5073212169
2 5173212169
3 9173212169
4 9173212169
5 8573212169
6 9173212169
7 9173212169
8 15699236601
9 5656618421
10 5732121169
11 7806454545
12 4181023880
13 14795034462
14 7620450578
15 4765268468


#print(v1)
v2=pd.read_csv("F:/pythonProject1/data_2.csv")
#print(v2)
plt.scatter(v1,v2)
plt.show()
x=v1.value
y=v2.value
# plt.scatter(x,y)
#plt.show()
F:\pythonProject1\Scripts\python
1e10
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0.4
0.6
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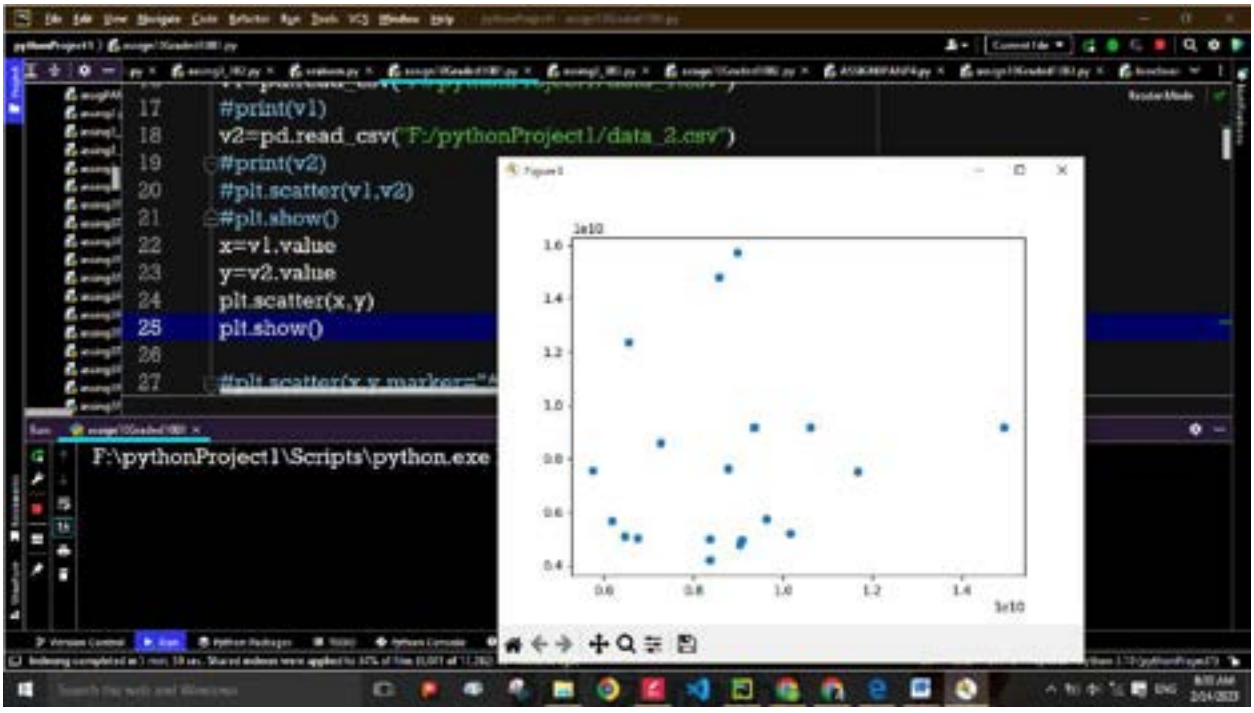
#print(v1)
v2=pd.read_csv("F:/pythonProject1/data_2.csv")
#print(v2)
#plt.scatter(v1,v2)
#plt.show()
x=v1.value
y=v2.value
plt.scatter(x,y)
plt.show()
F:\pythonProject1\Scripts\python.exe
1e10
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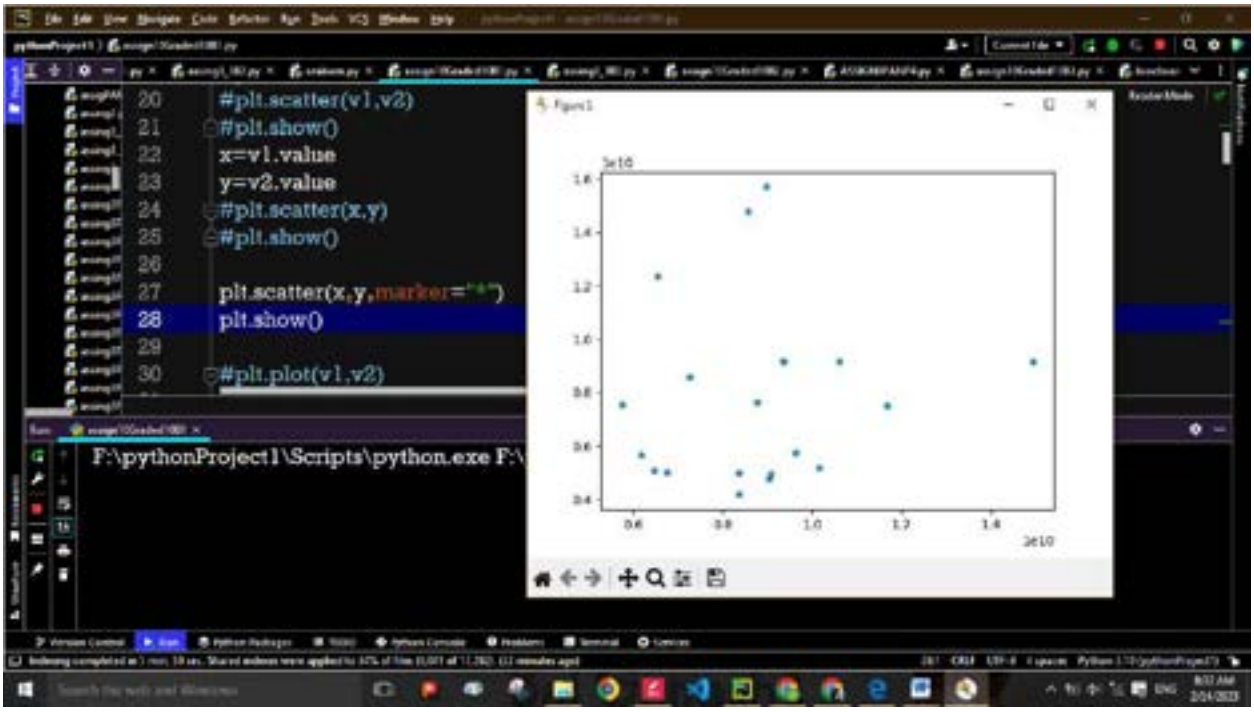
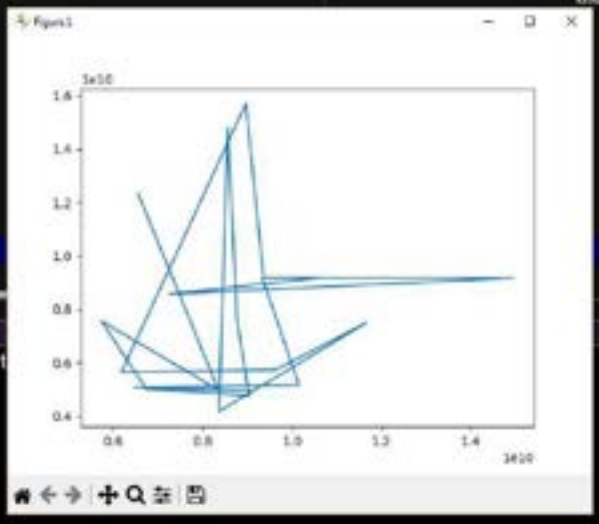

#plt.scatter(v1,v2)
#plt.show()
x=v1.value
y=v2.value
#plt.scatter(x,y)
#plt.show()
plt.scatter(x,y,marker="*")
plt.show()
#plt.plot(v1,v2)
F:\pythonProject1\Scripts\python.exe F:\
1e10
1e10

```
x=v1.value
y=v2.value
#plt.scatter(x,y)
#plt.show()

#plt.scatter(x,y,marker="*")
#plt.show()
#plotting x and y points
plt.plot(v1,v2)
plt.show()

F:\pythonProject1\Scripts\python.exe F:\pyt
```




```
#plt.show()

#plt.scatter(x,y,marker="*")
#plt.show()
#plotting x and y points
#plt.plot(v1,v2)
#plt.show()

plt.plot(v1,v2,"o")
print(plt.show())

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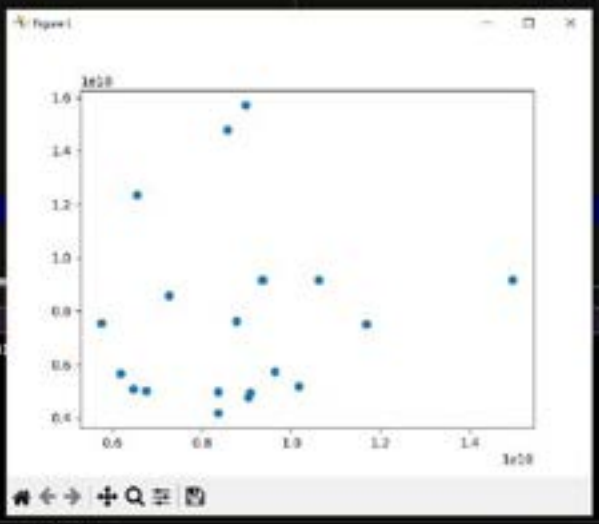
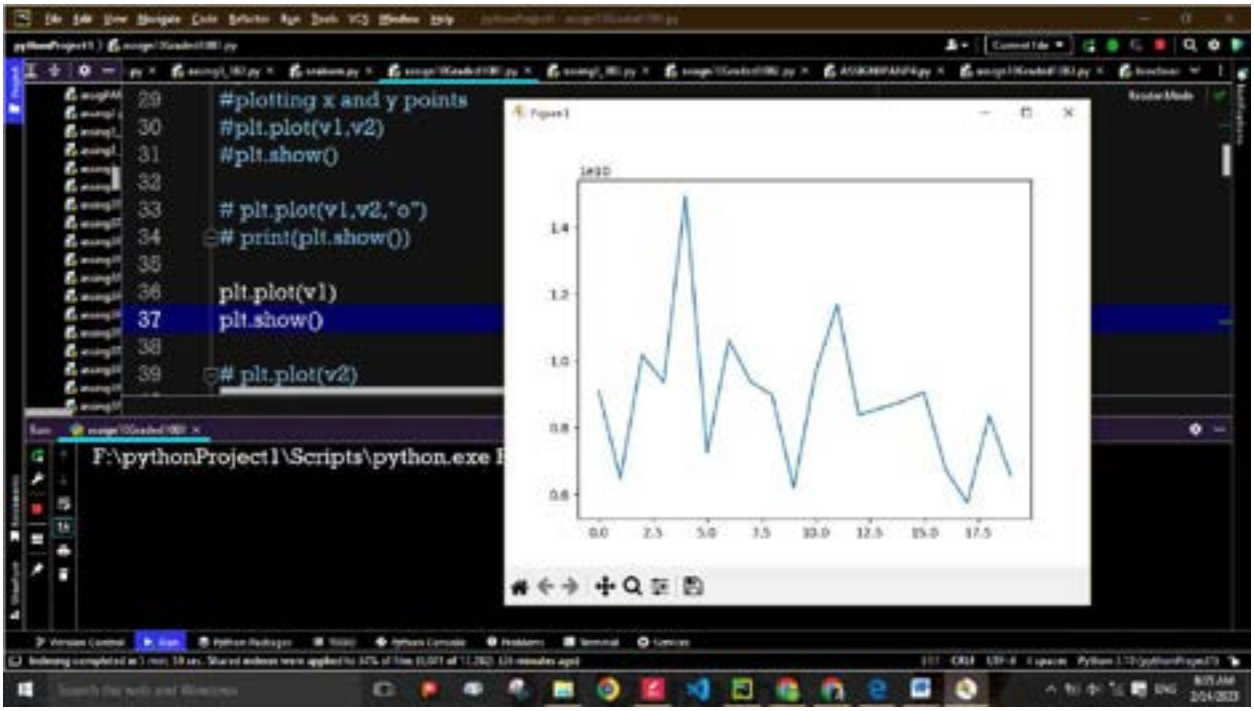
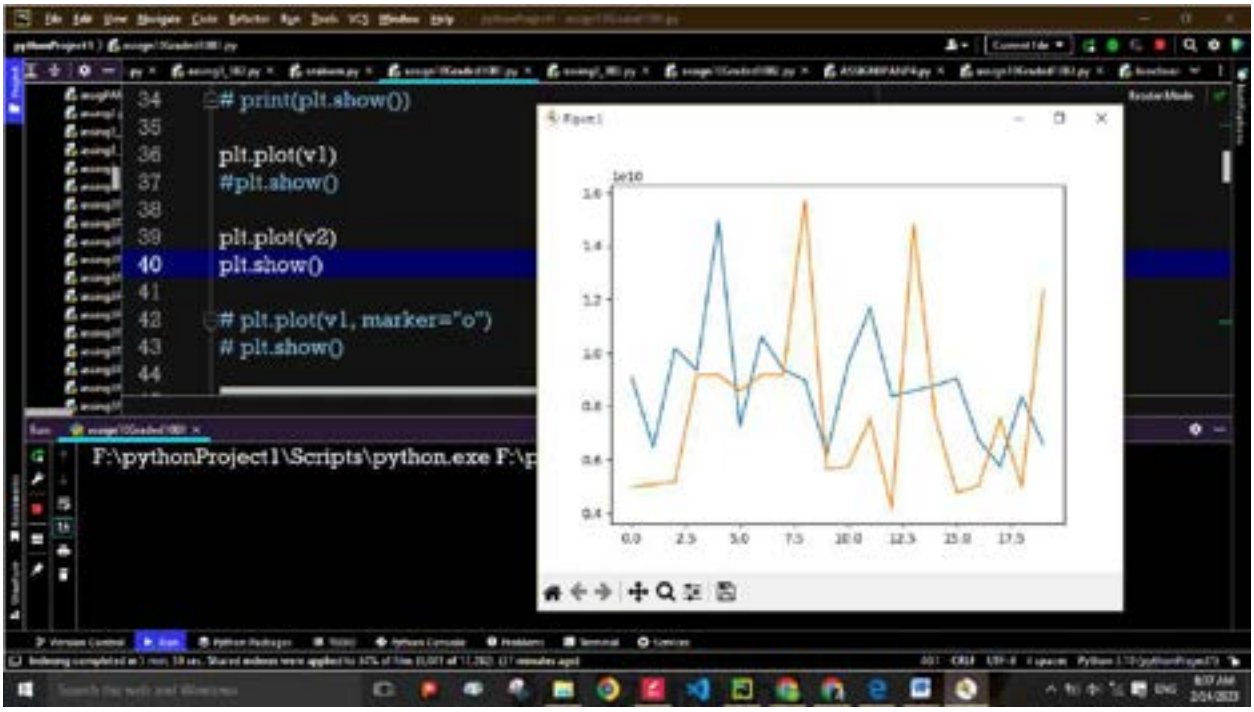



#plotting x and y points
#plt.plot(v1,v2)
#plt.show()
# plt.plot(v1,v2,"o")
# print(plt.show())
plt.plot(v1)
plt.show()
# plt.plot(v2)
F:\pythonProject1\Scripts\python.exe
Figure 1
1e10


# print(plt.show())
plt.plot(v1)
#plt.show()
plt.plot(v2)
plt.show()
# plt.plot(v1, marker="o")
# plt.show()
F:\pythonProject1\Scripts\python.exe F:\p
Figure 1
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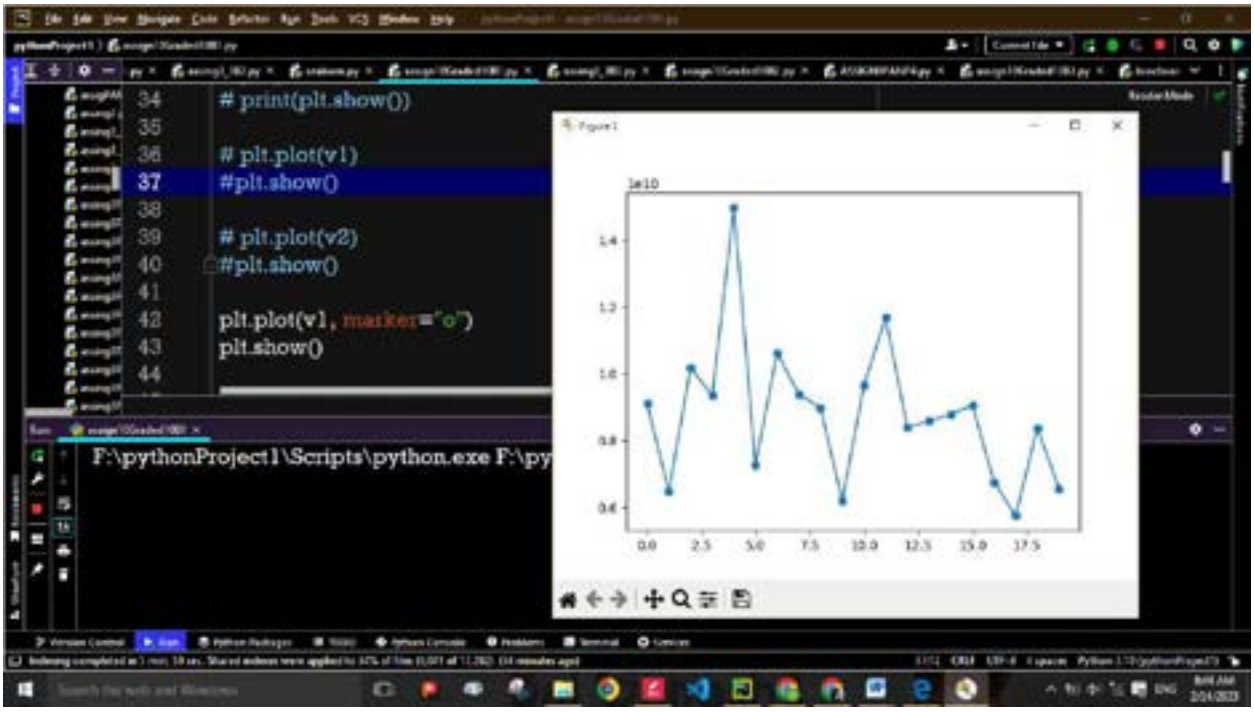
34 # print(plt.show())
35
36 # plt.plot(v1)
37 #plt.show()
38
39 # plt.plot(v2)
40 #plt.show()
41
42 plt.plot(v1, marker="o")
43 plt.show()
44
F:\pythonProject1\Scripts\python.exe F:\py
Figure 1
1e10
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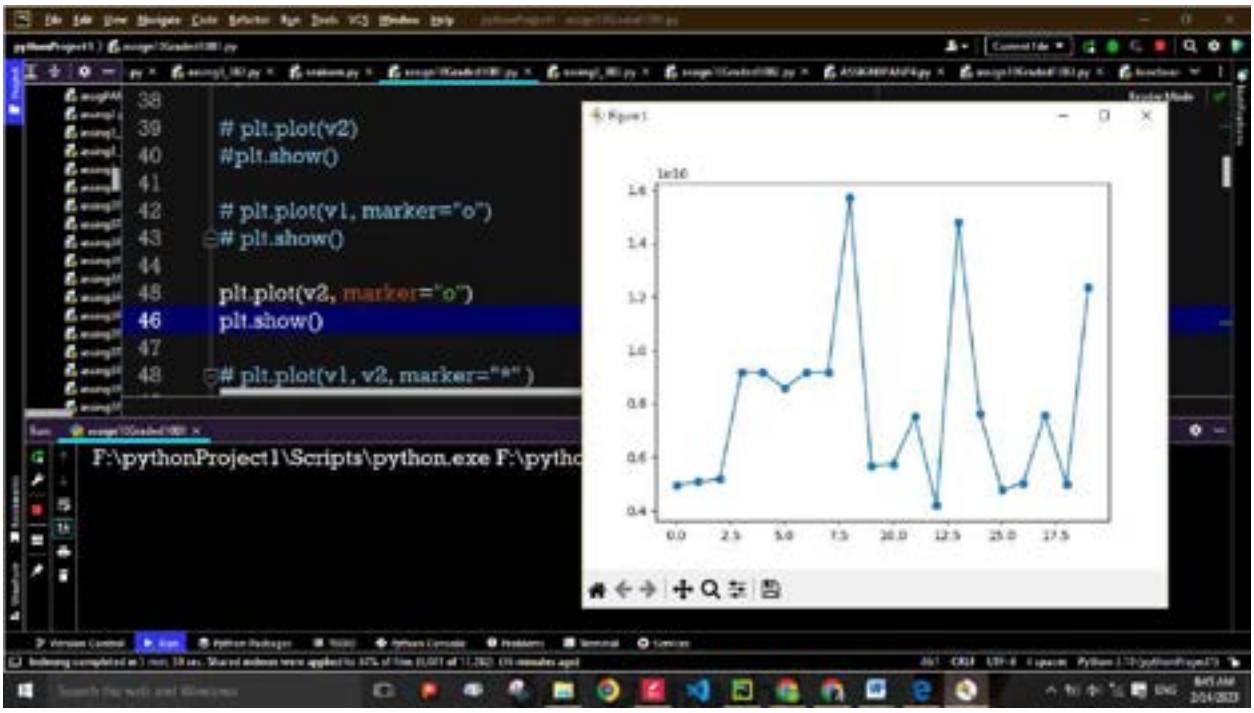
38
39 # plt.plot(v2)
40 #plt.show()
41
42 # plt.plot(v1, marker="o")
43 # plt.show()
44
45 plt.plot(v2, marker="o")
46 plt.show()
47
48 # plt.plot(v1, v2, marker="*")
F:\pythonProject1\Scripts\python.exe F:\pytho
Figure 1
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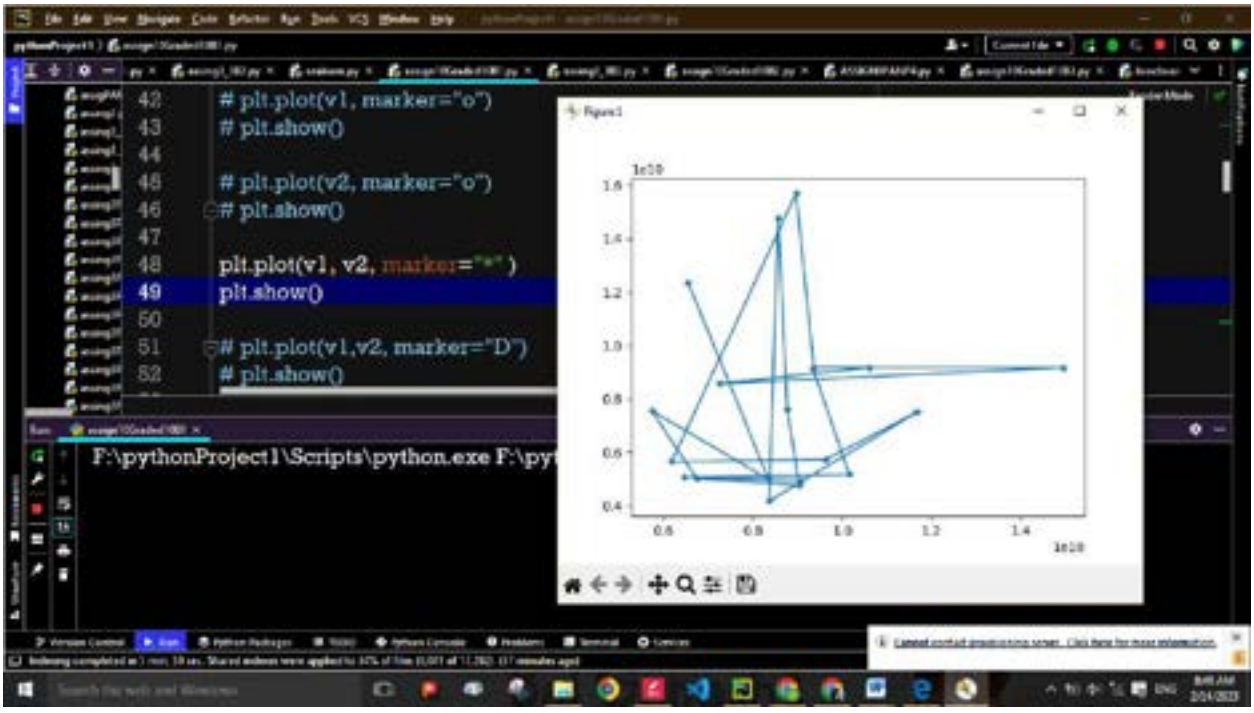
10.0
12.5
15.0
17.5


42 # plt.plot(v1, marker="o")
43 # plt.show()
44
45 # plt.plot(v2, marker="o")
46 # plt.show()
47
48 plt.plot(v1, v2, marker="*")
49 plt.show()
50
51 # plt.plot(v1,v2, marker="D")
52 # plt.show()
F:\pythonProject1\Scripts\python.exe F:\py
Figure 1
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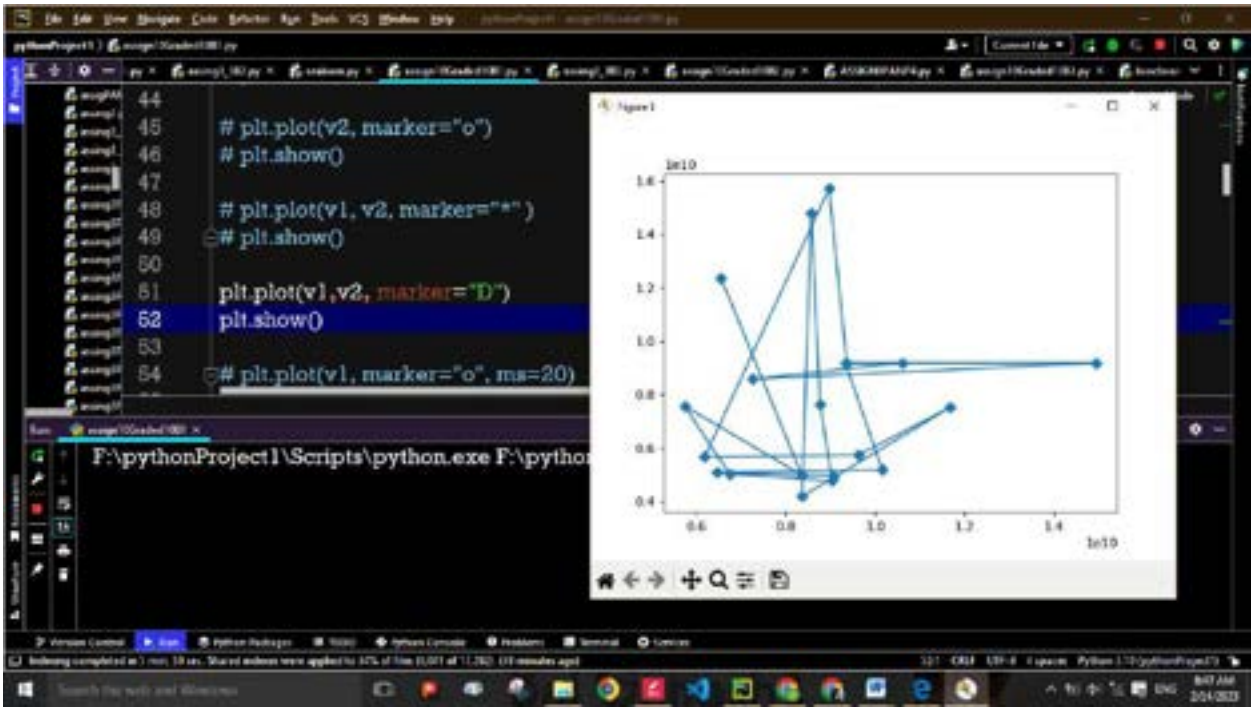
44
45 # plt.plot(v2, marker="o")
46 # plt.show()
47
48 # plt.plot(v1, v2, marker="*")
49 # plt.show()
50
51 plt.plot(v1,v2, marker="D")
52 plt.show()
53
54 # plt.plot(v1, marker="o", ms=20)
F:\pythonProject1\Scripts\python.exe F:\pytho
Figure 1
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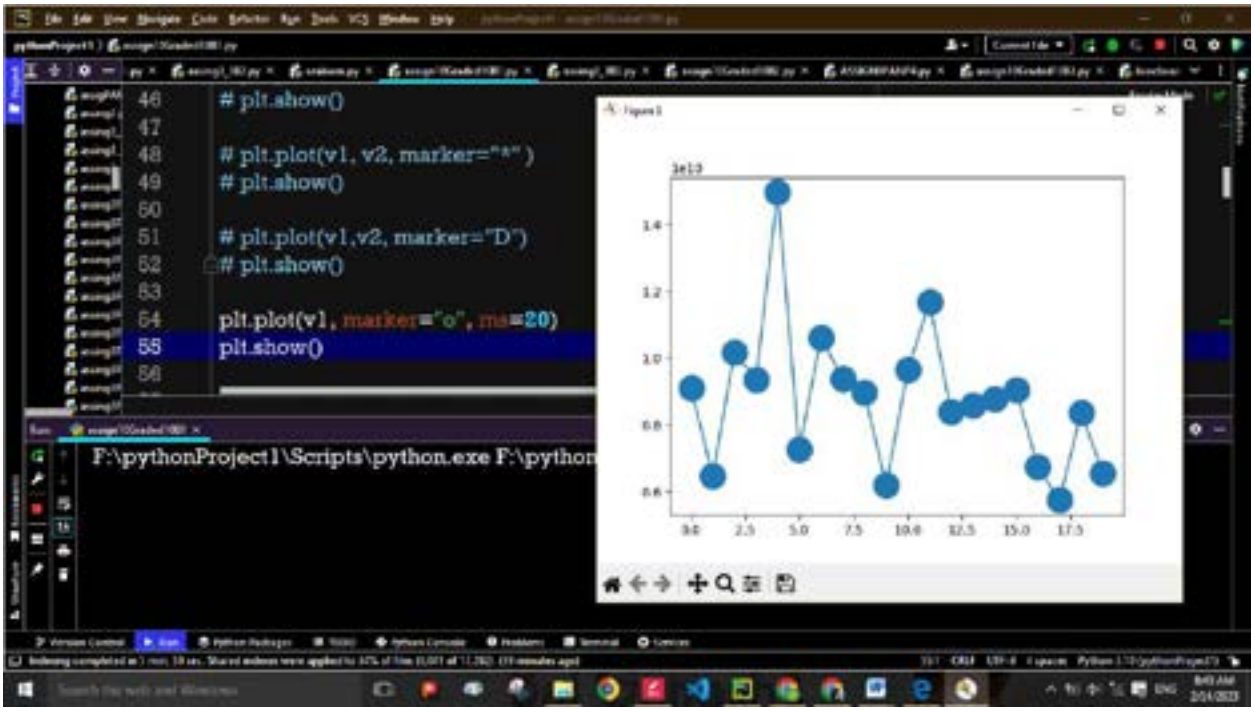
46 # plt.show()
47
48 # plt.plot(v1, v2, marker="*")
49 # plt.show()
50
51 # plt.plot(v1,v2, marker="D")
52 # plt.show()
53
54 plt.plot(v1, marker="o", ms=20)
55 plt.show()
56
F:\pythonProject1\Scripts\python.exe F:\python
Figure 1
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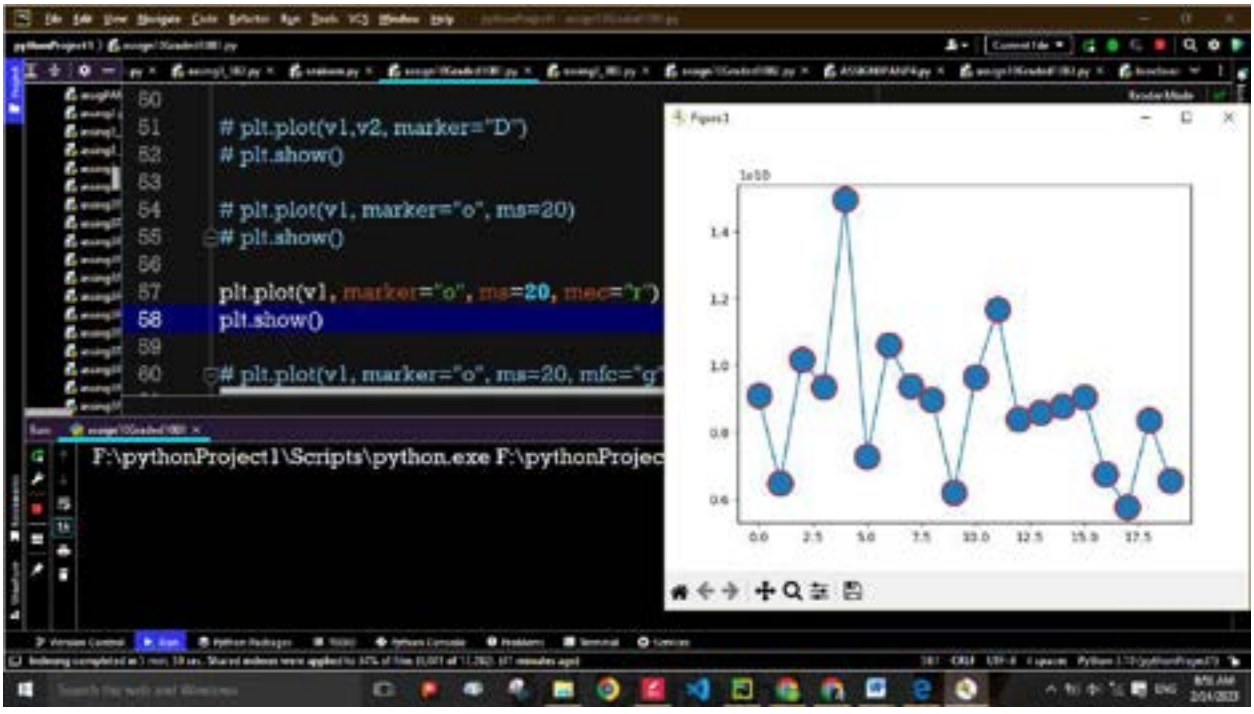
50
51 # plt.plot(v1,v2, marker="D")
52 # plt.show()
53
54 # plt.plot(v1, marker="o", ms=20)
55 # plt.show()
56
57 plt.plot(v1, marker="o", ms=20, mec="r")
58 plt.show()
59
60 # plt.plot(v1, marker="o", ms=20, mfc="g"
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Figure 1
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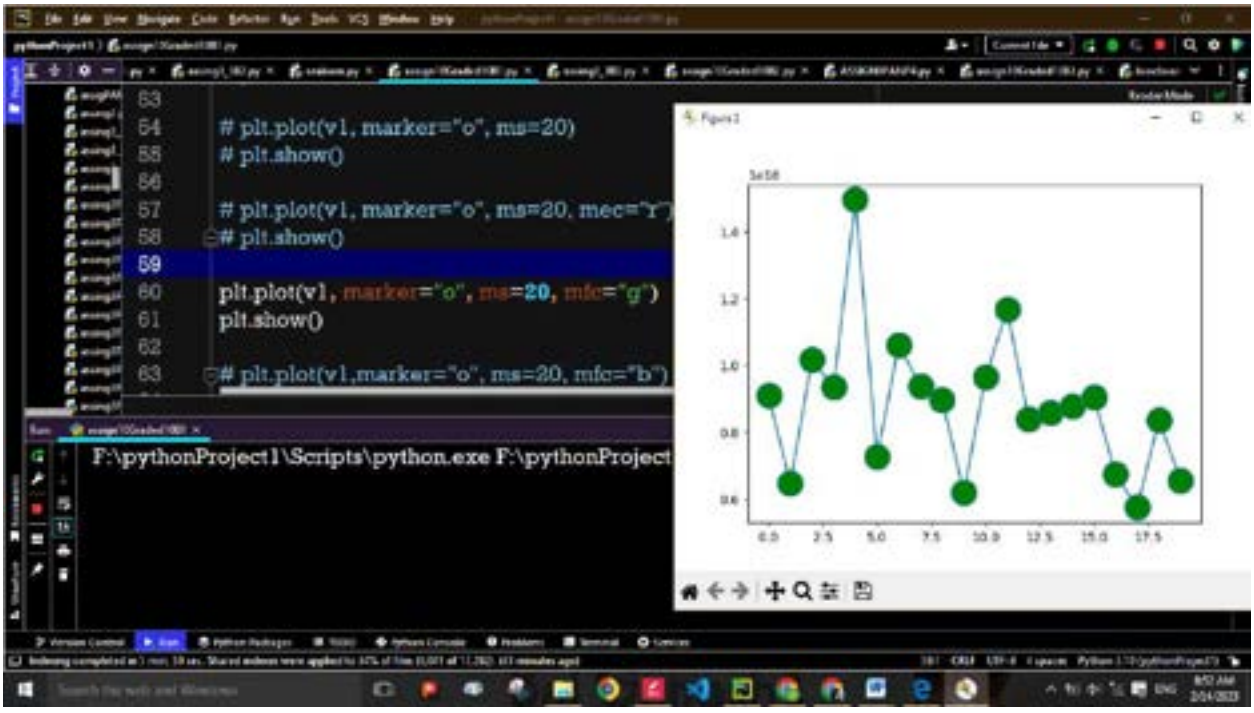
63
64 # plt.plot(v1, marker="o", ms=20)
65 # plt.show()
66
67 # plt.plot(v1, marker="o", ms=20, mec="r")
68 # plt.show()
69
60 plt.plot(v1, marker="o", ms=20, mfc="g")
61 plt.show()
62
63 # plt.plot(v1,marker="o", ms=20, mfc="b")
F:\pythonProject1\Scripts\python.exe F:\pythonProject
Figure 1
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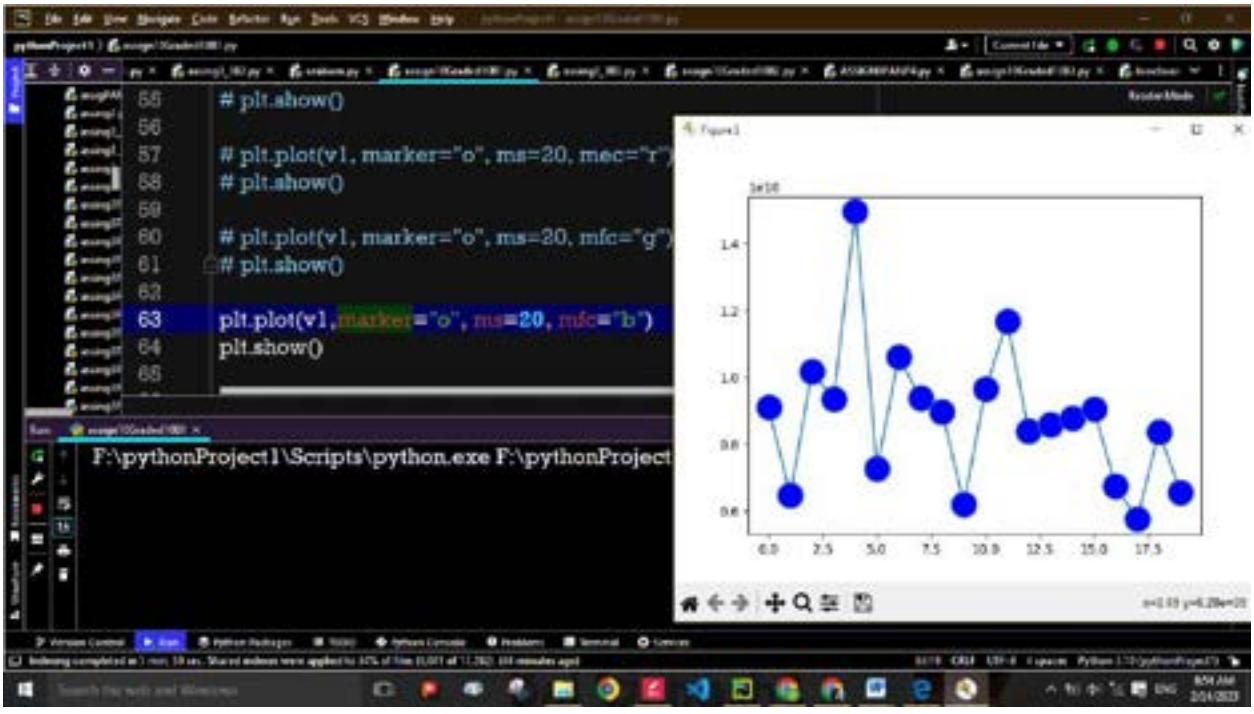
55 # plt.show()
56
57 # plt.plot(v1, marker="o", ms=20, mec="r")
58 # plt.show()
59
60 # plt.plot(v1, marker="o", ms=20, mfc="g")
61 # plt.show()
62
63 plt.plot(v1,marker="o", ms=20, mfc="b")
64 plt.show()
F:\pythonProject1\Scripts\python.exe F:\pythonProject
Figure 1
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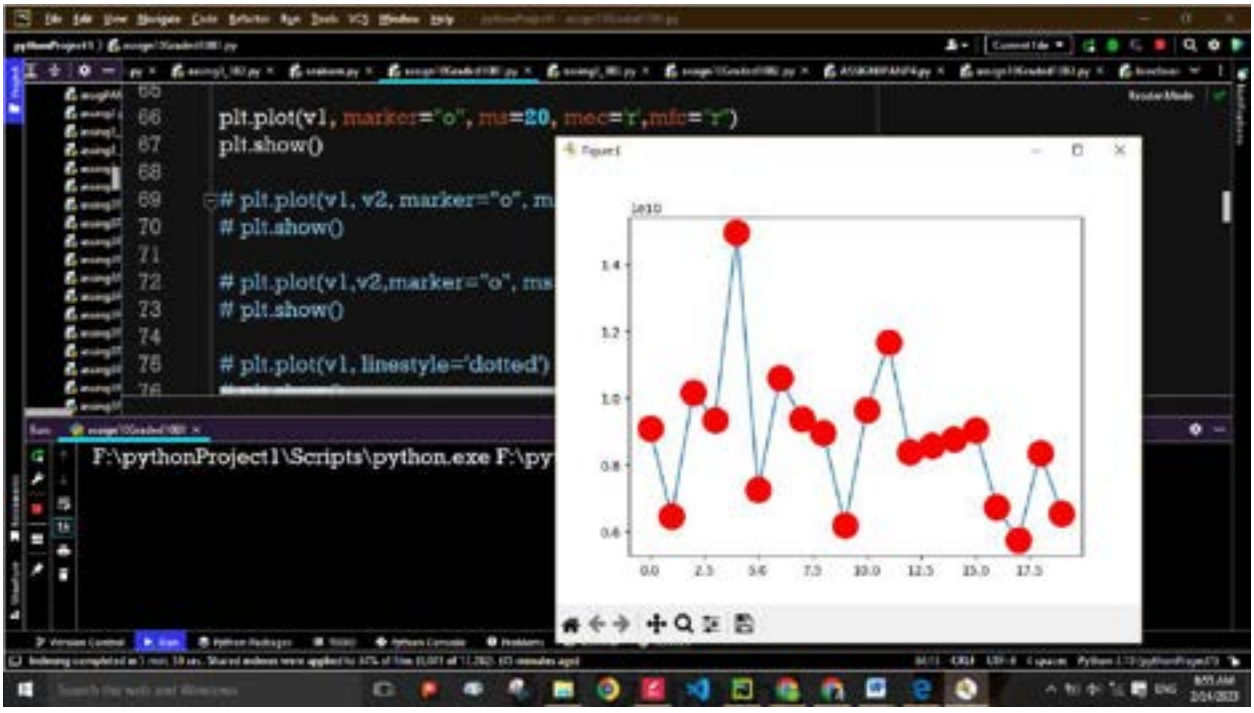
plt.plot(v1, marker="o", ms=20, mec='r',mfc='r')
plt.show()
# plt.plot(v1, v2, marker="o", m
# plt.show()
# plt.plot(v1,v2,marker="o", ms
# plt.show()
# plt.plot(v1, linestyle='dotted')
F:\pythonProject1\Scripts\python.exe F:\py
Figure 1
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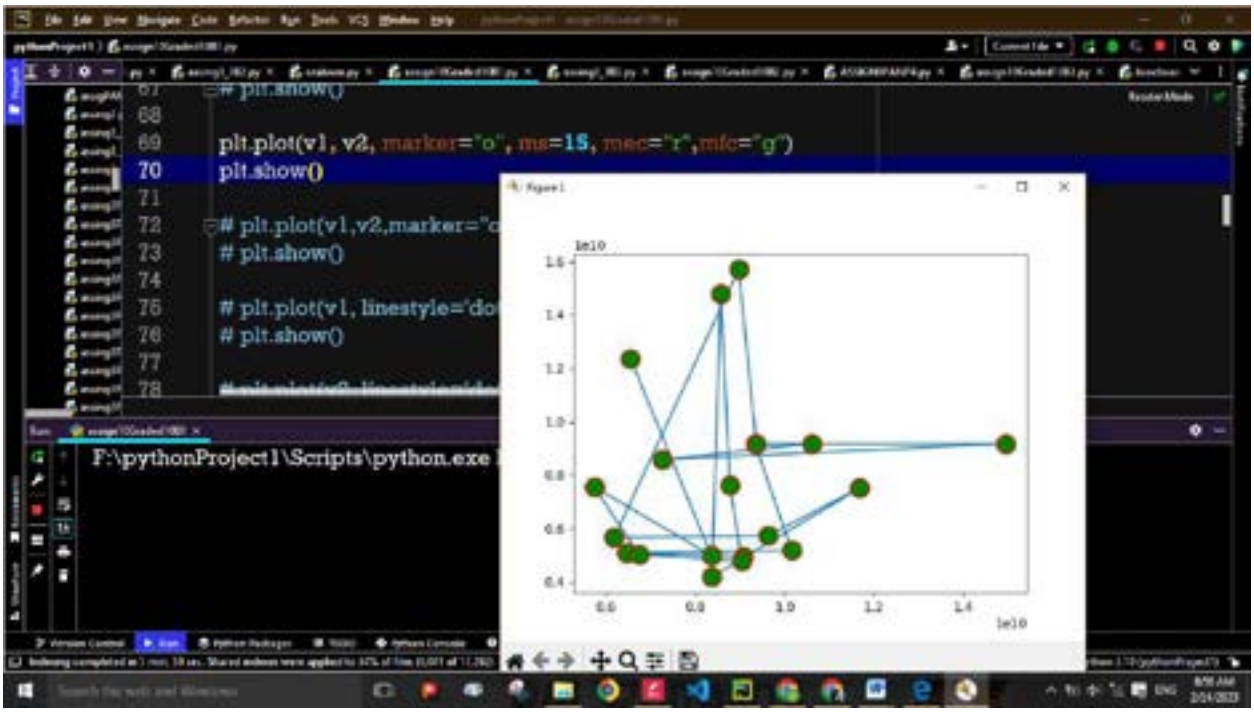
15.0
17.5


plt.plot(v1, v2, marker="o", ms=15, mec="r",mfc="g")
plt.show()
# plt.plot(v1,v2,marker="o
# plt.show()
# plt.plot(v1, linestyle='do
# plt.show()
F:\pythonProject1\Scripts\python.exe
Figure 1
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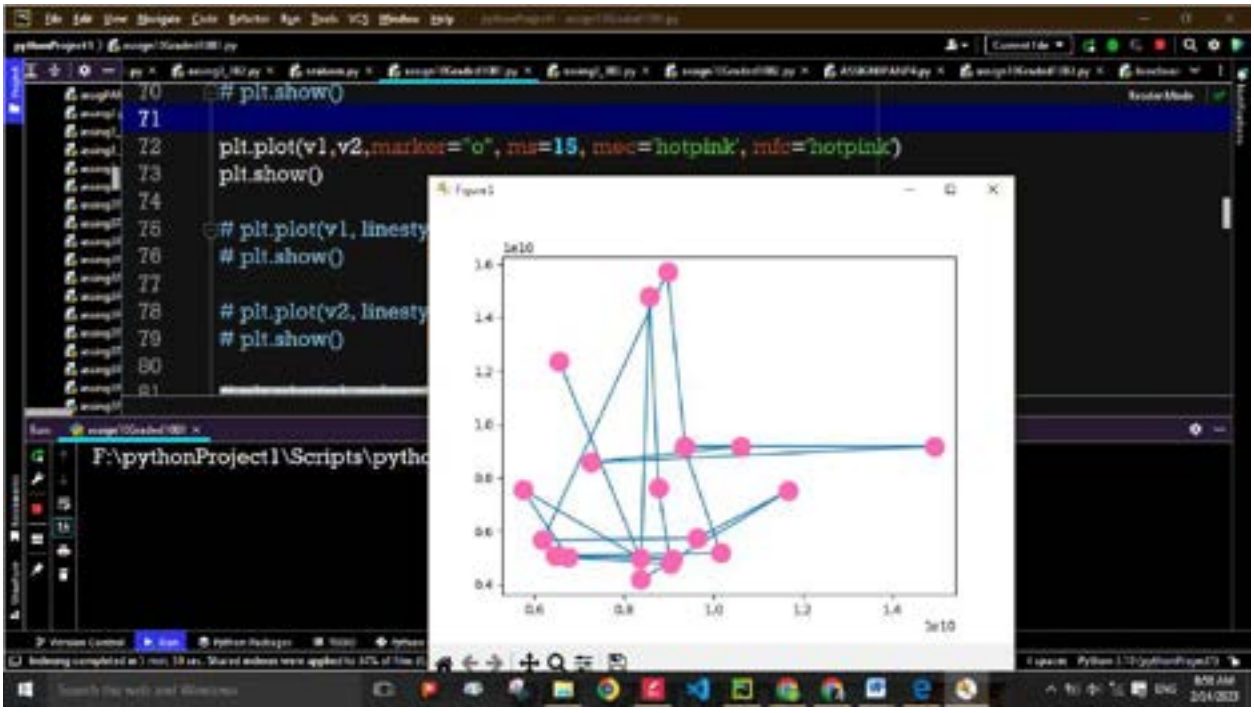
70 # plt.show()
71
72 plt.plot(v1,v2,marker="o", ms=15, mec='hotpink', mfc='hotpink')
73 plt.show()
74
75 # plt.plot(v1, linesty
76 # plt.show()
77
78 # plt.plot(v2, linesty
79 # plt.show()
80
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Figure 1
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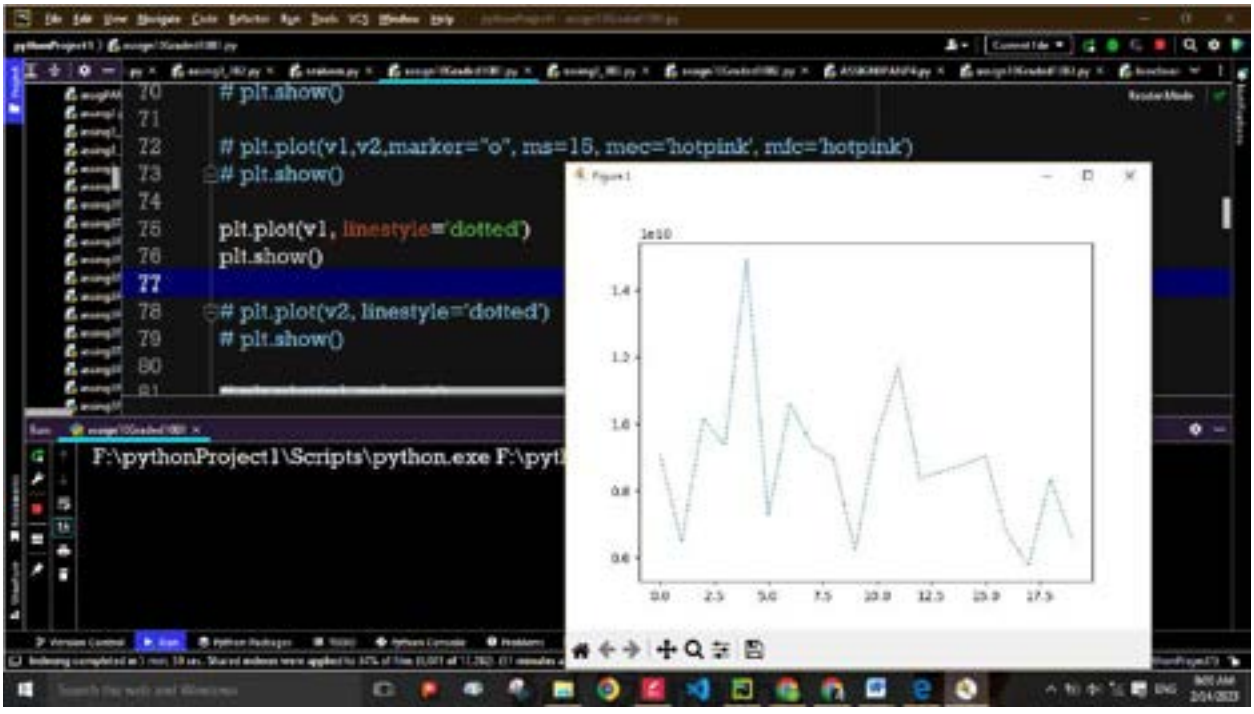
70 # plt.show()
71
72 # plt.plot(v1,v2,marker="o", ms=15, mec='hotpink', mfc='hotpink')
73 # plt.show()
74
75 plt.plot(v1, linestyle='dotted')
76 plt.show()
77
78 # plt.plot(v2, linestyle='dotted')
79 # plt.show()
80
F:\pythonProject1\Scripts\python.exe F:\pyt
Figure 1
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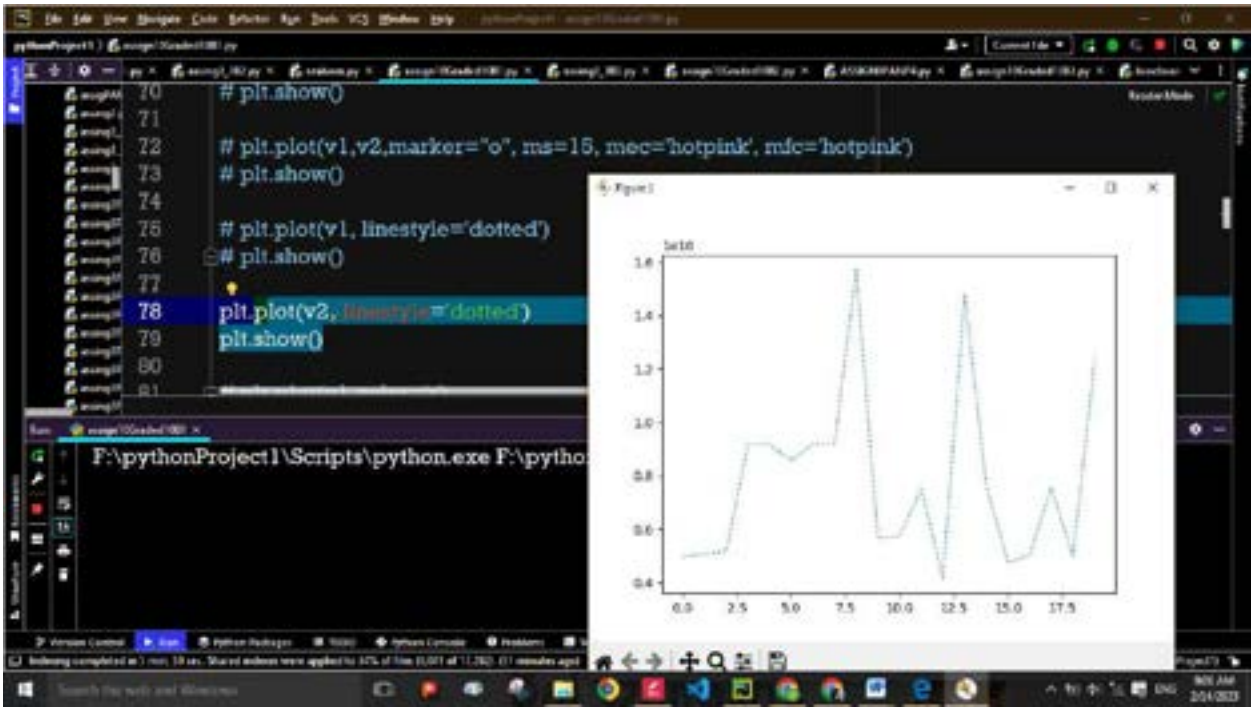
70 # plt.show()
71
72 # plt.plot(v1,v2,marker="o", ms=15, mec='hotpink', mfc='hotpink')
73 # plt.show()
74
75 # plt.plot(v1, linestyle='dotted')
76 # plt.show()
77
78 plt.plot(v2, linestyle='dotted')
79 plt.show()
80
F:\pythonProject1\Scripts\python.exe F:\pytho
1e10
1.6
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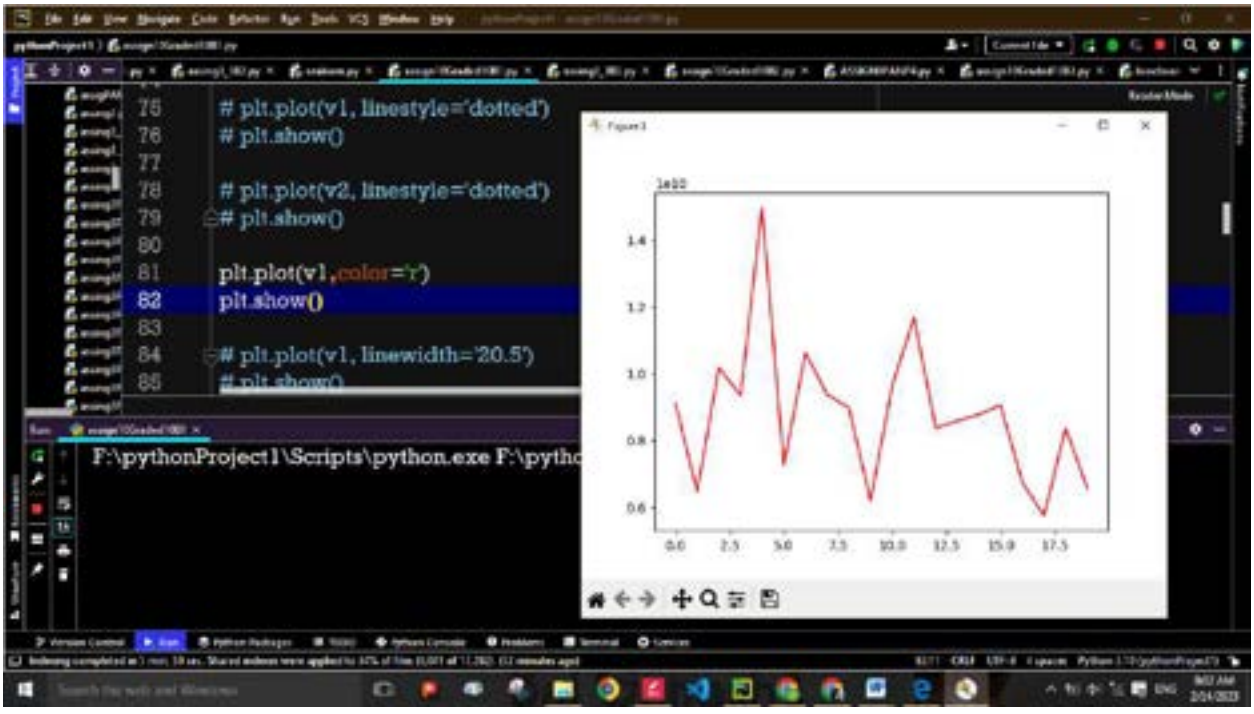
1.0
0.8
0.6
0.4
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5


75 # plt.plot(v1, linestyle='dotted')
76 # plt.show()
77
78 # plt.plot(v2, linestyle='dotted')
79 # plt.show()
80
81 plt.plot(v1,color='r')
82 plt.show()
83
84 # plt.plot(v1, linewidth='20.5')
85 # plt.show()
F:\pythonProject1\Scripts\python.exe F:\pytho
1e10
1.4
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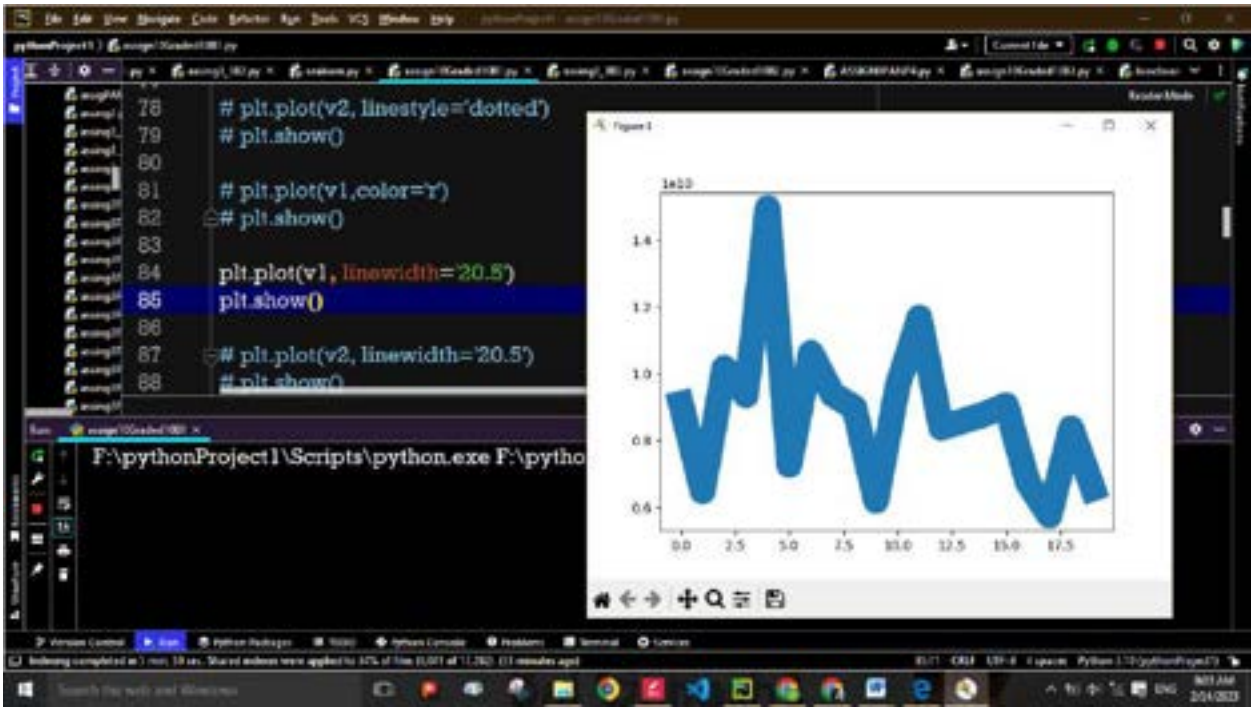
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5


78 # plt.plot(v2, linestyle='dotted')
79 # plt.show()
80
81 # plt.plot(v1,color='r')
82 # plt.show()
83
84 plt.plot(v1, linewidth='20.5')
85 plt.show()
86
87 # plt.plot(v2, linewidth='20.5')
88 # plt.show()
F:\pythonProject1\Scripts\python.exe F:\pytho
Figure 1
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1.0
0.8
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0.0
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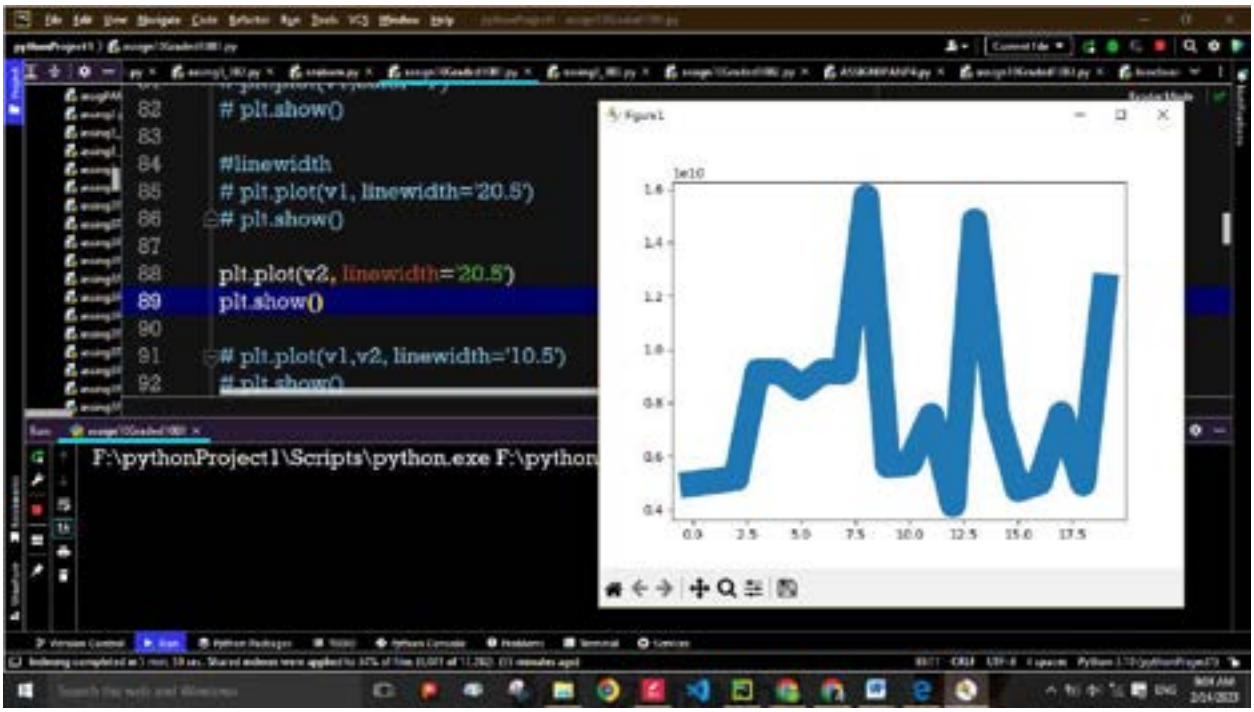
7.5
10.0
12.5
15.0
17.5


82 # plt.show()
83
84 #linewidth
85 # plt.plot(v1, linewidth='20.5')
86 # plt.show()
87
88 plt.plot(v2, linewidth='20.5')
89 plt.show()
90
91 # plt.plot(v1,v2, linewidth='10.5')
92 # plt.show()
F:\pythonProject1\Scripts\python.exe F:\python
Figure1
1e10
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1.0
0.8
0.6
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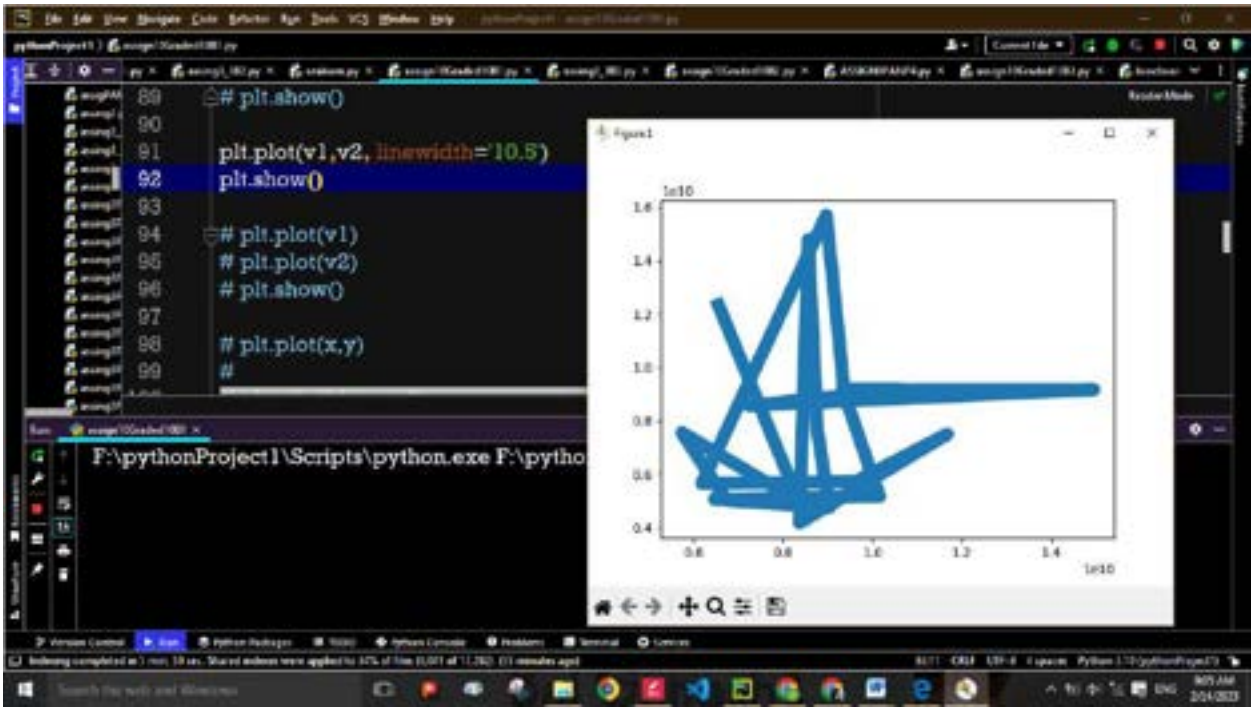
7.5
10.0
12.5
15.0
17.5


89 # plt.show()
90
91 plt.plot(v1,v2, linewidth='10.5')
92 plt.show()
93
94 # plt.plot(v1)
95 # plt.plot(v2)
96 # plt.show()
97
98 # plt.plot(x,y)
99 #
F:\pythonProject1\Scripts\python.exe F:\pytho
Figure 1
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1.2
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0.4
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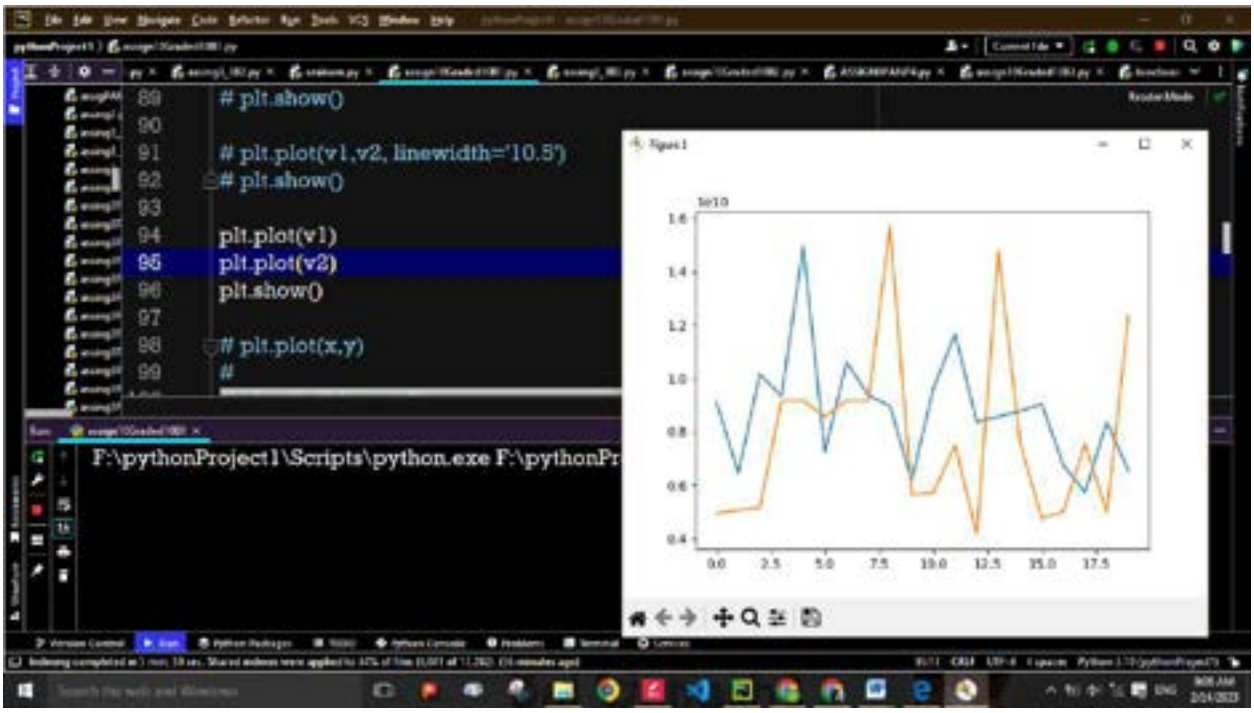
0.8
1.0
1.2
1.4
1e10


89 # plt.show()
90
91 # plt.plot(v1,v2, linewidth='10.5')
92 # plt.show()
93
94 plt.plot(v1)
95 plt.plot(v2)
96 plt.show()
97
98 # plt.plot(x,y)
99 #
F:\pythonProject1\Scripts\python.exe F:\pythonPr
Figure 1
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1.6
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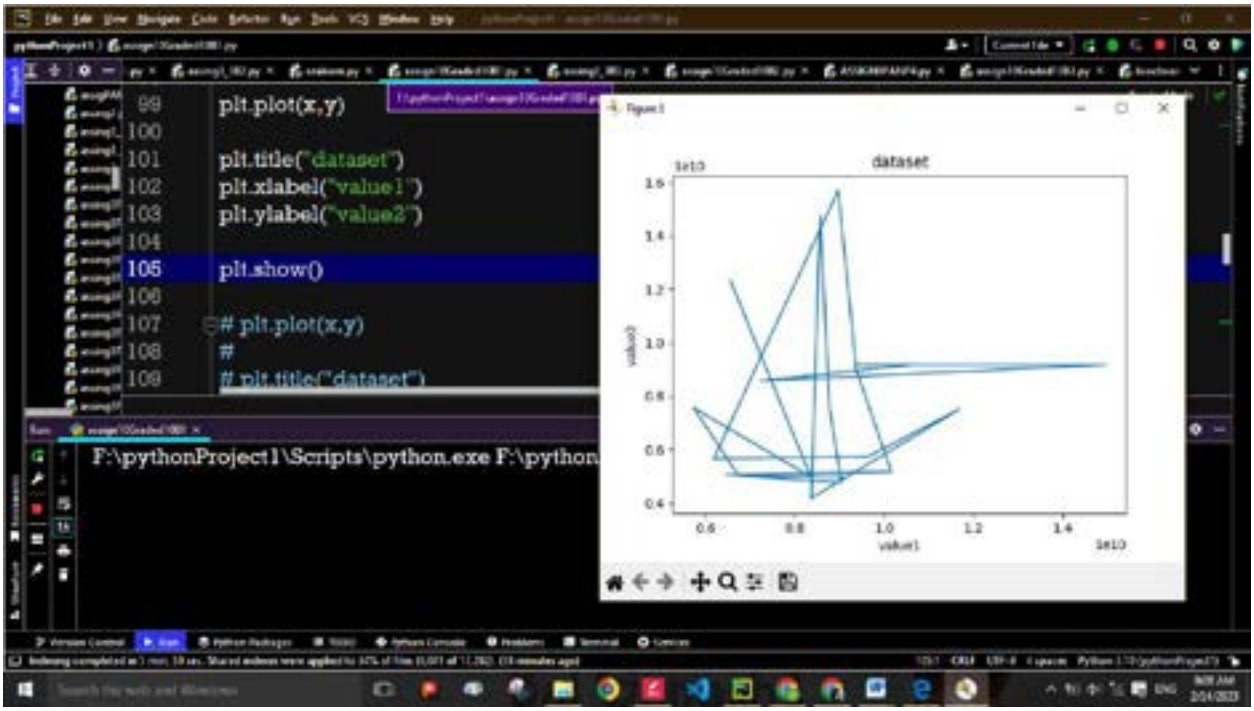
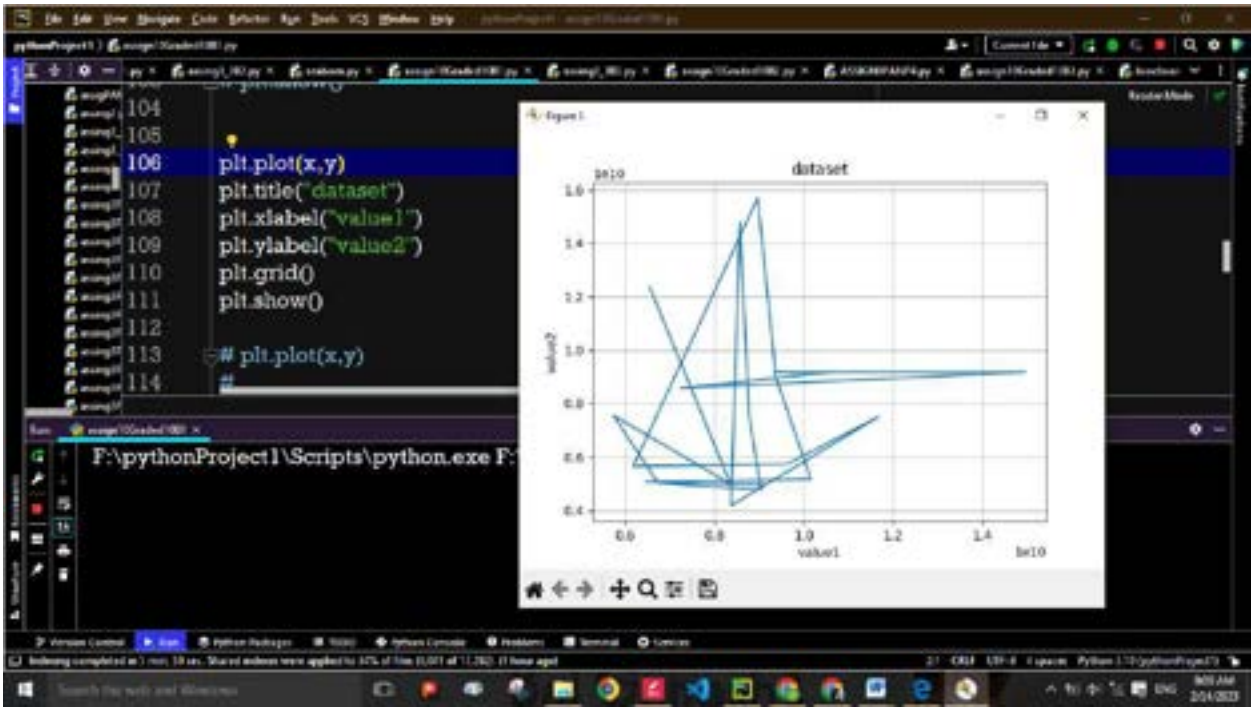
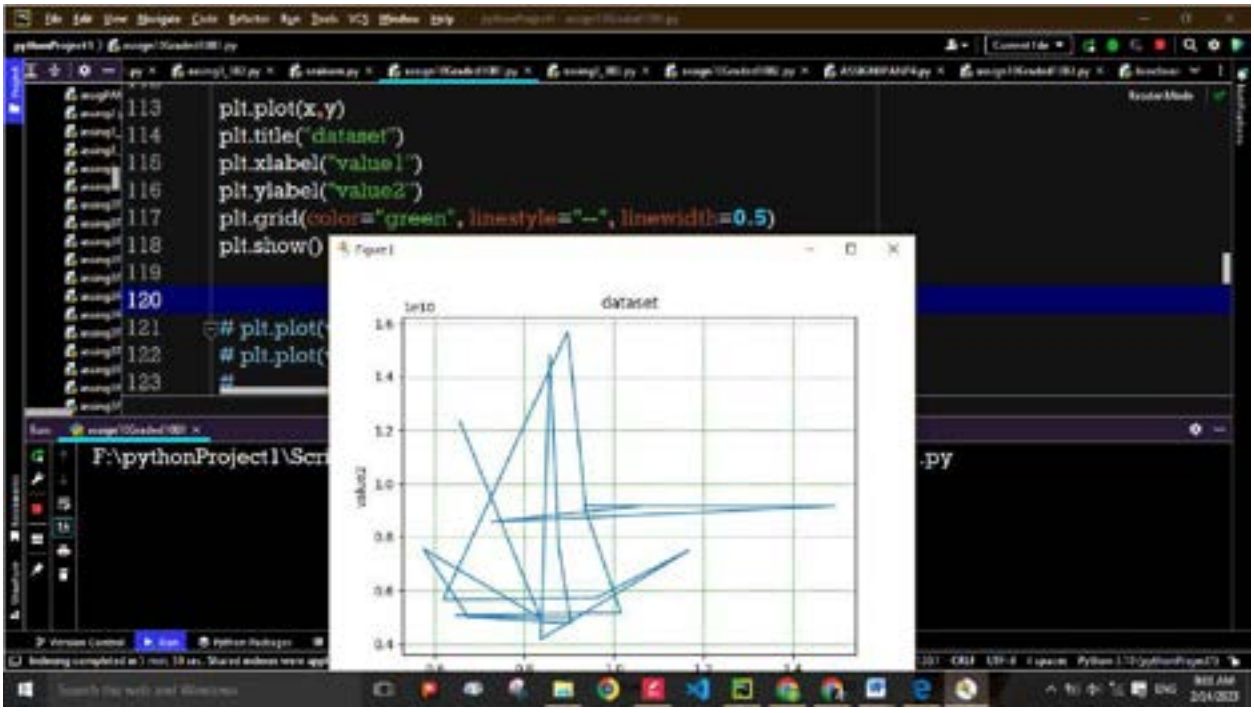
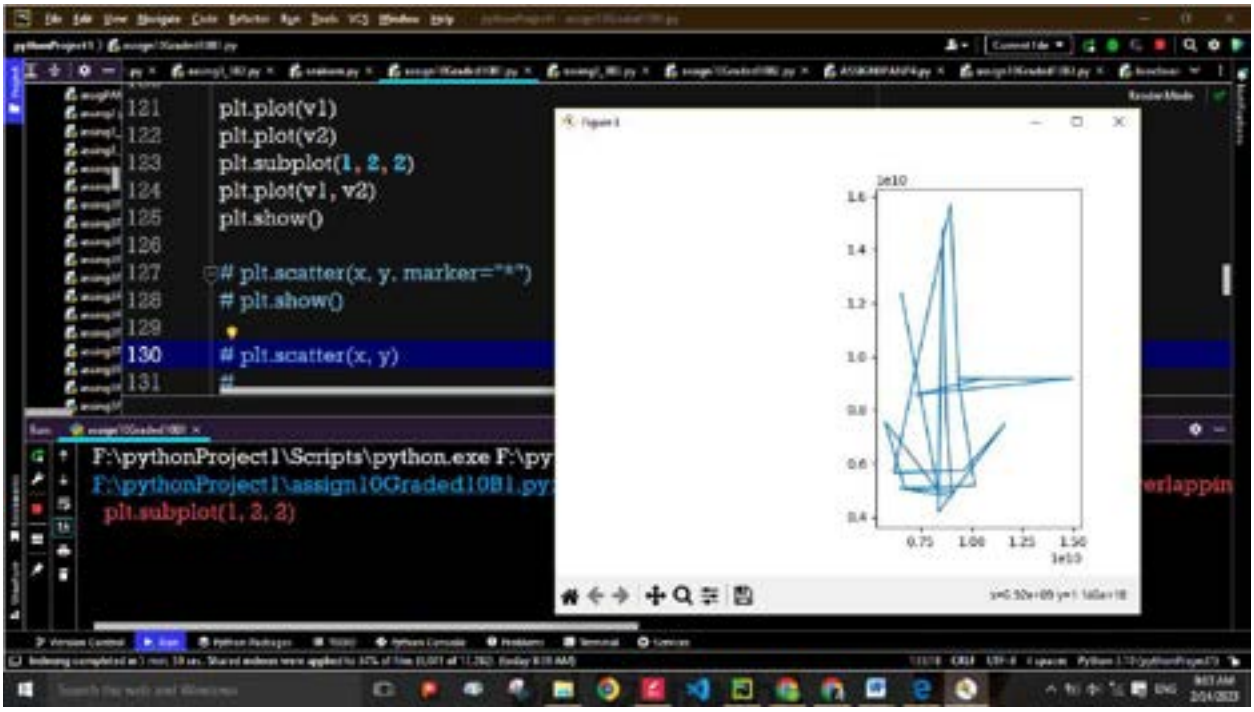
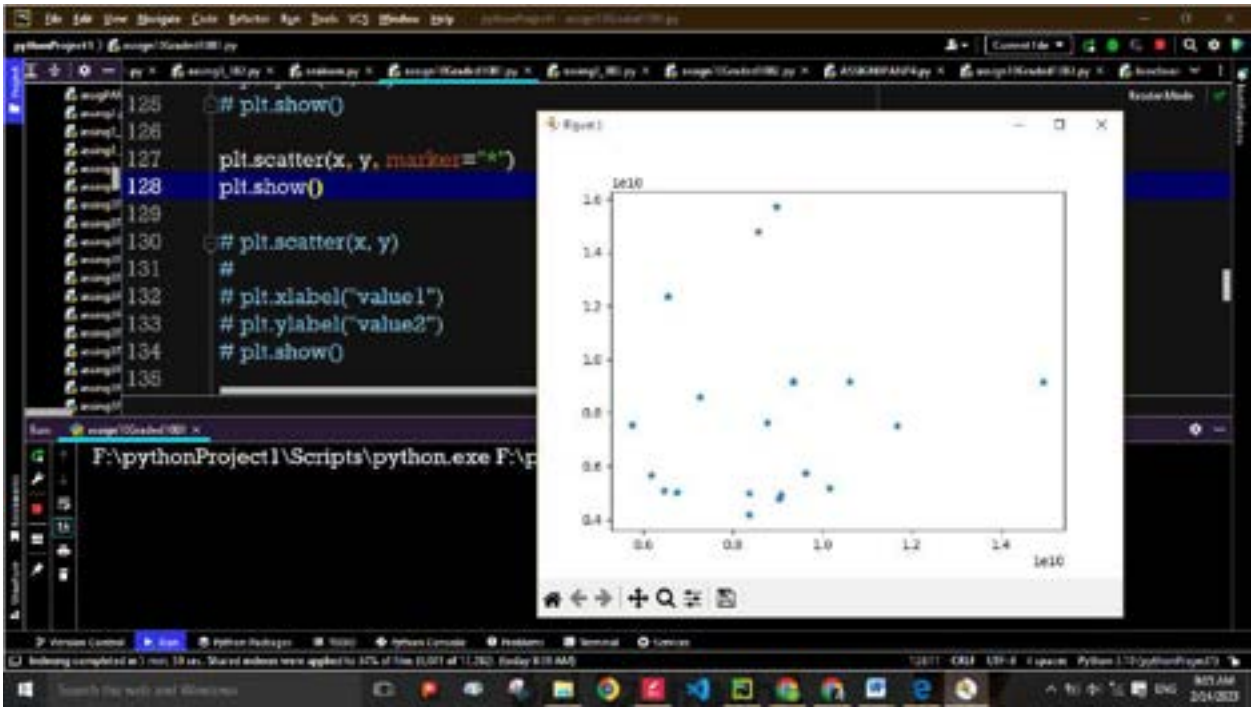
12.5
15.0
17.5

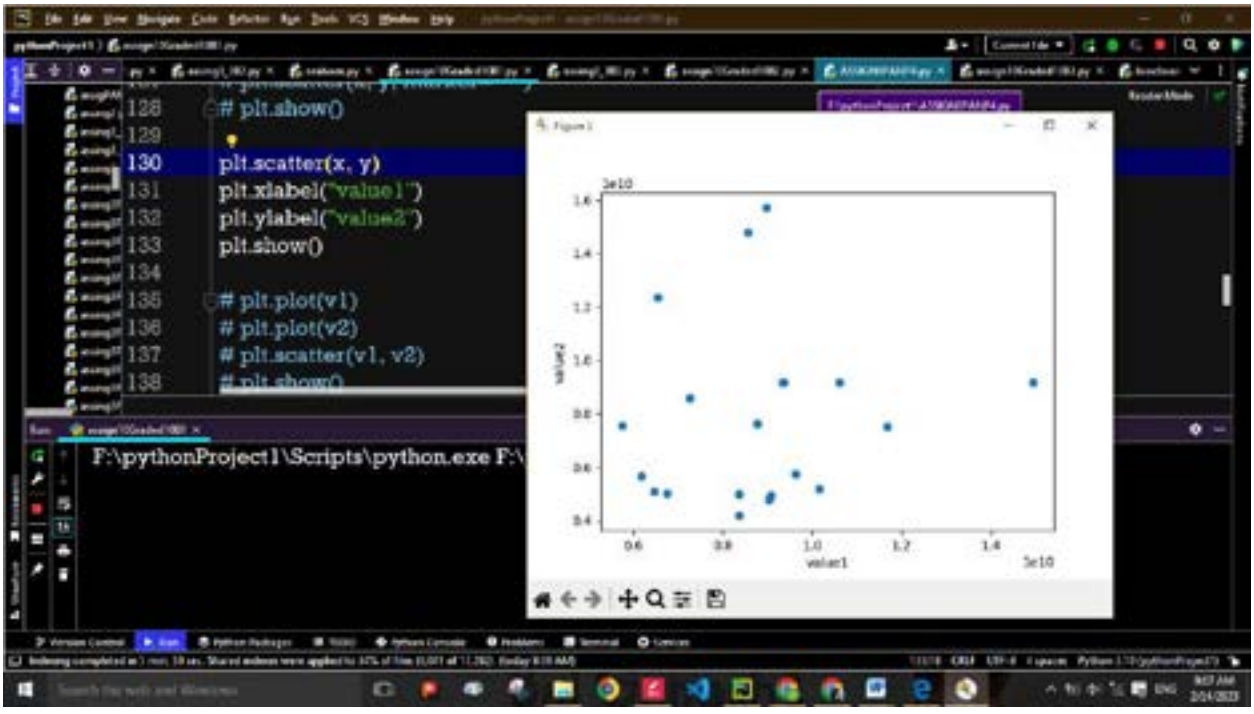

plt.plot(x,y)
plt.title("dataset")
plt.xlabel("value1")
plt.ylabel("value2")
plt.show()
# plt.plot(x,y)
#
plt.title("dataset")
F:\pythonProject1\Scripts\python.exe F:\python
dataset
1e10
value1
value2

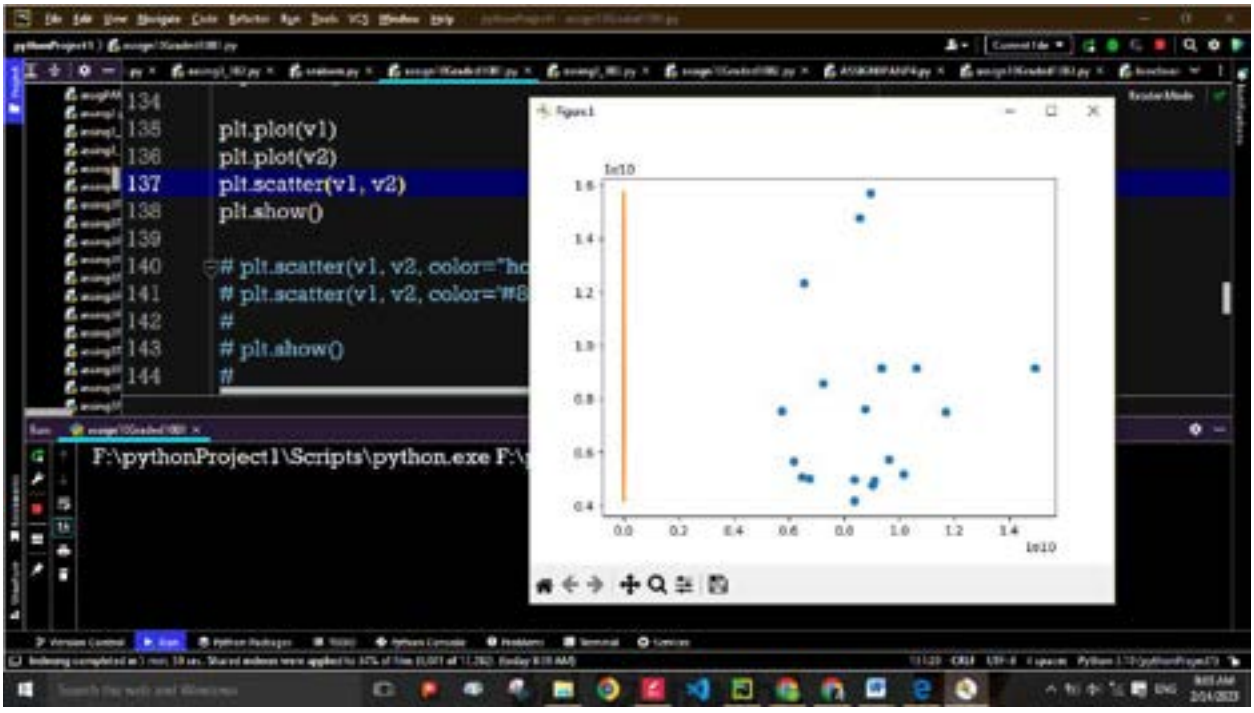

plt.plot(x,y)
plt.title("dataset")
plt.xlabel("value1")
plt.ylabel("value2")
plt.grid()
plt.show()
# plt.plot(x,y)
#
F:\pythonProject1\Scripts\python.exe F:
dataset
1e10
value1
value2


plt.plot(x,y)
plt.title("dataset")
plt.xlabel("value1")
plt.ylabel("value2")
plt.grid(color="green", linestyle="--", linewidth=0.5)
plt.show()
dataset
1e10
value2
F:\pythonProject1\Scri
.py


plt.plot(v1)
plt.plot(v2)
plt.subplot(1, 2, 2)
plt.plot(v1, v2)
plt.show()
# plt.scatter(x, y, marker="*")
# plt.show()
# plt.scatter(x, y)
F:\pythonProject1\Scripts\python.exe F:\py
F:\pythonProject1\assign10Graded1081.py
plt.subplot(1, 2, 2)
1e10


125 # plt.show()
126
127 plt.scatter(x, y, marker="*")
128 plt.show()
129
130 # plt.scatter(x, y)
131 #
132 # plt.xlabel("value1")
133 # plt.ylabel("value2")
134 # plt.show()
135
F:\pythonProject1\Scripts\python.exe F:\p
1e10
1e10


128 # plt.show()
129
130 plt.scatter(x, y)
131 plt.xlabel("value1")
132 plt.ylabel("value2")
133 plt.show()
134
135 # plt.plot(v1)
136 # plt.plot(v2)
137 # plt.scatter(v1, v2)
138 # plt.show()
F:\pythonProject1\Scripts\python.exe F:\
1e10
value2
value1
1e10


134
135 plt.plot(v1)
136 plt.plot(v2)
137 plt.scatter(v1, v2)
138 plt.show()
139
140 # plt.scatter(v1, v2, color="hc
141 # plt.scatter(v1, v2, color='#8
142 #
143 # plt.show()
144 #
F:\pythonProject1\Scripts\python.exe F:\
Figure 1
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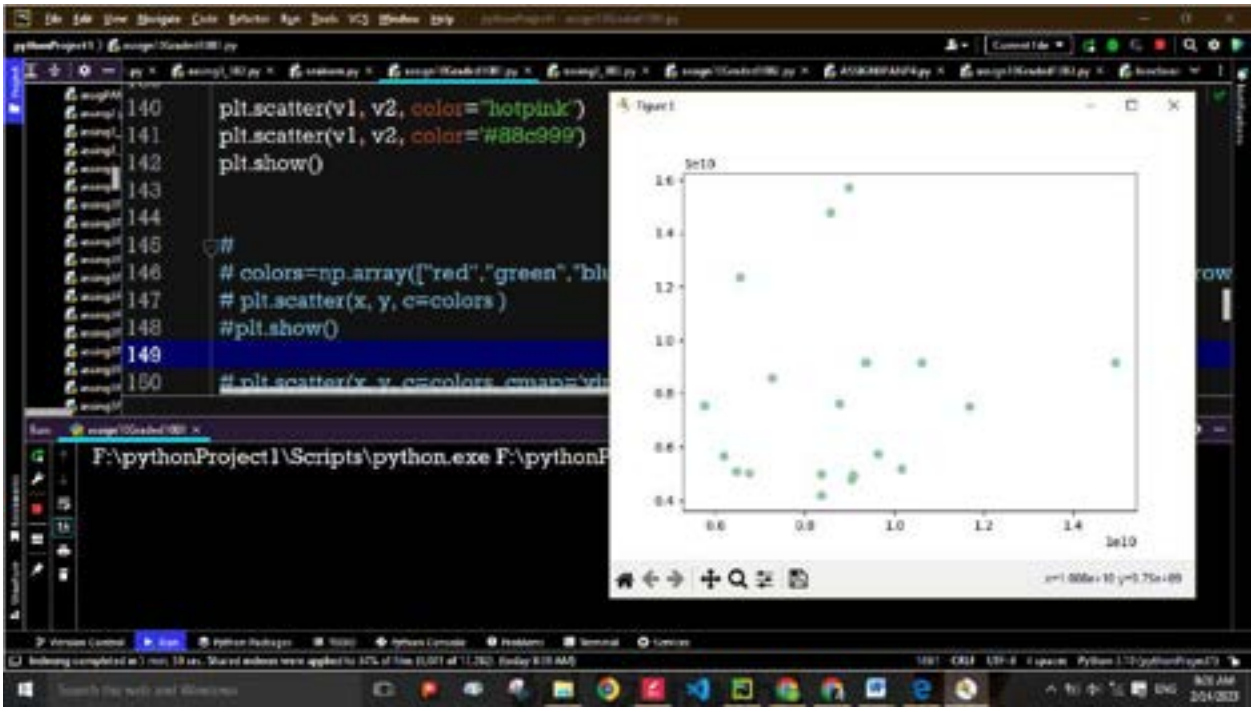
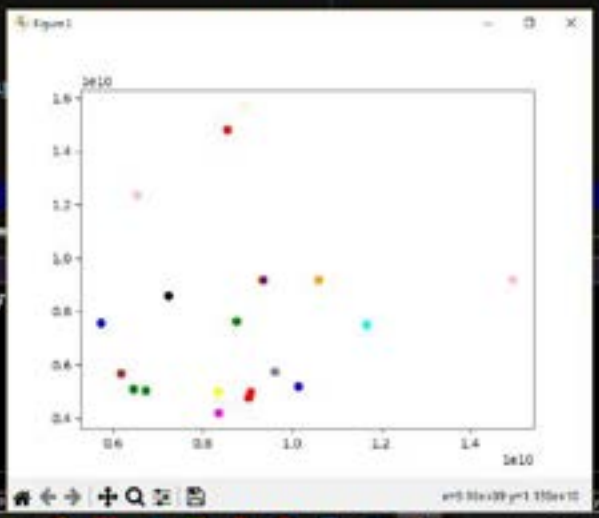
1e10


140 plt.scatter(v1, v2, color="hotpink")
141 plt.scatter(v1, v2, color='#88c999')
142 plt.show()
143
144
145 #
146 # colors=np.array(["red","green","bl
147 # plt.scatter(x, y, c=colors)
148 #plt.show()
149
150
F:\pythonProject1\Scripts\python.exe F:\pythonP
Figure 1
1e10
1e10

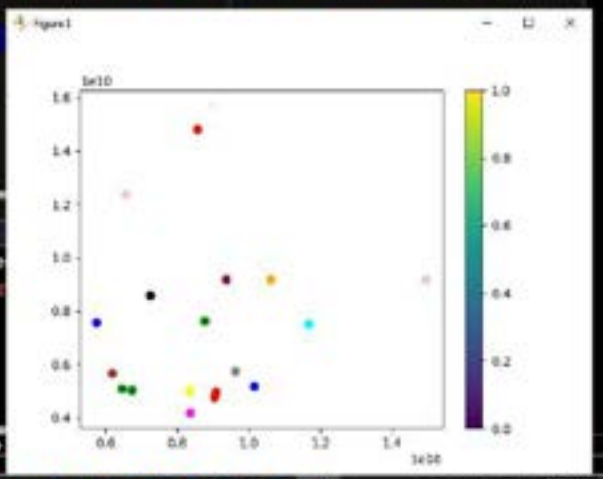
```
146  colors=np.array(["red","green","blue","yellow","pink","black","orange","purple","beige",
       "brown","gray","cyan","magenta","red","green","red","green","blue","yellow","pink"])
147  plt.scatter(x, y, c=colors )
148  plt.show()
149
160  # plt.scatter(x, y, c=colors, cma
161  # plt.colorbar()
162  # plt.show()
153
154  import matplotlib.pyplot as plt
155  import numpy as np
```

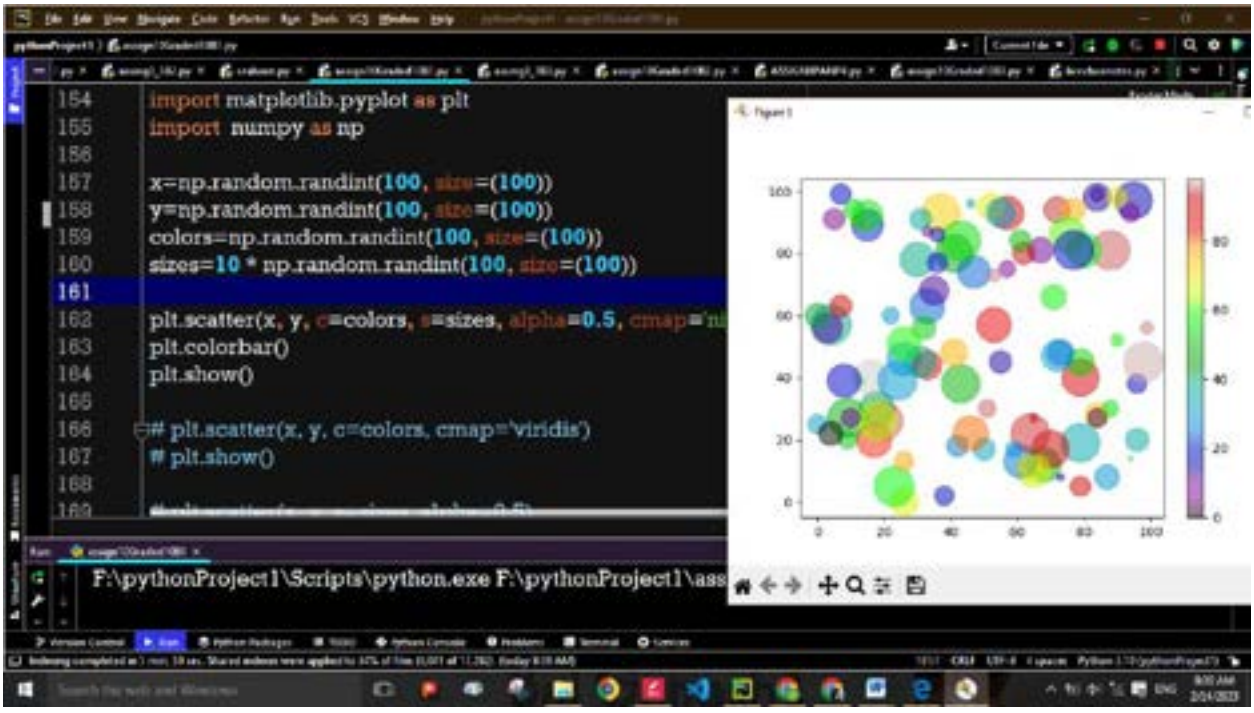
```
F:\pythonProject1\Scripts\python.exe F:\py
```

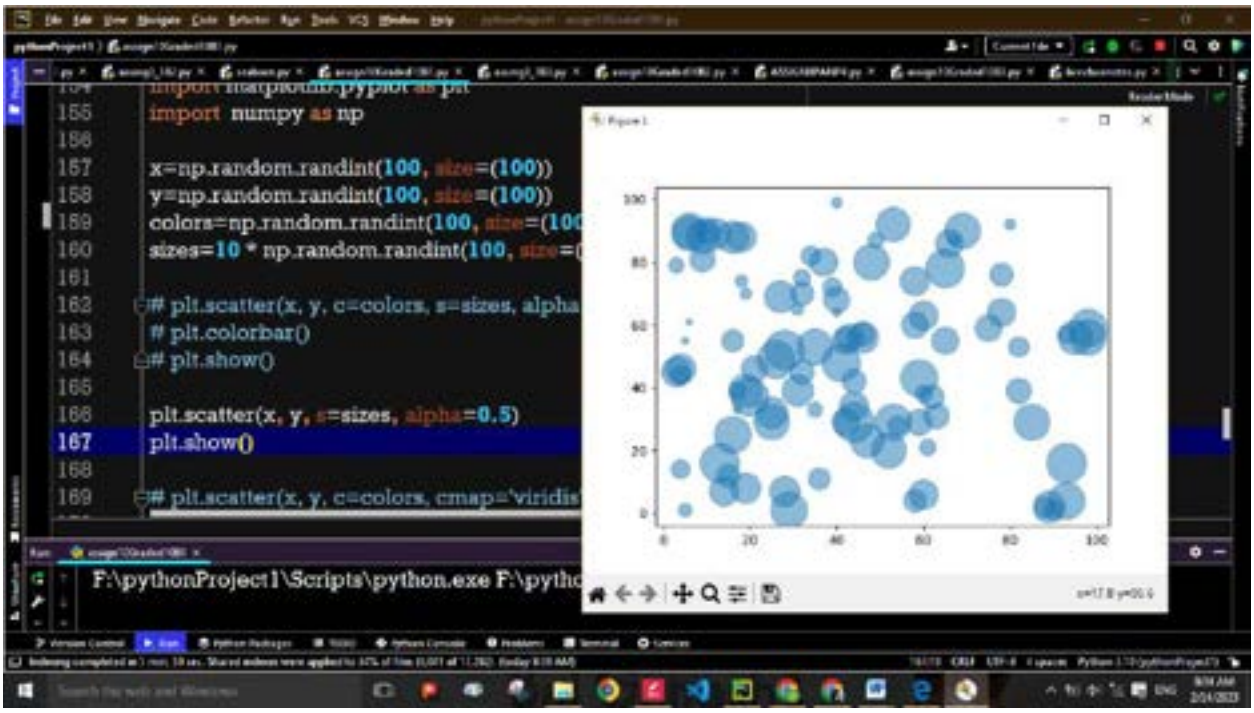


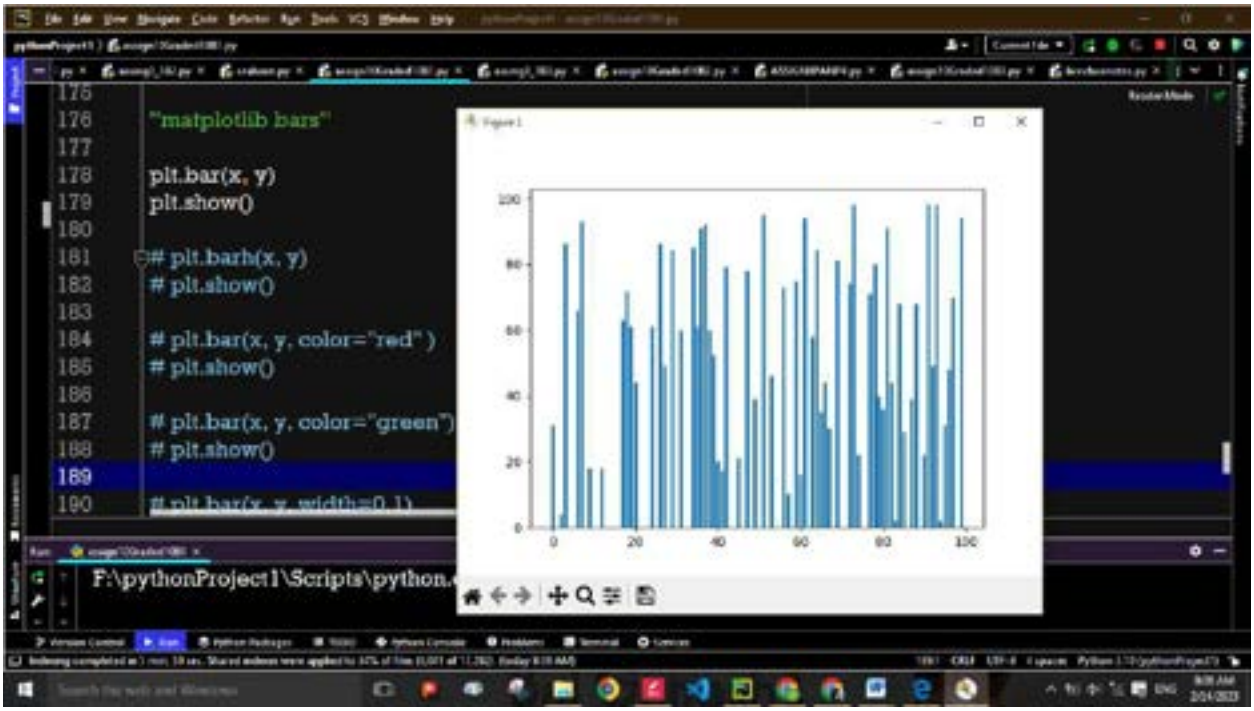
```
144
145  "color each dot"
146  colors=np.array(["red","green","blue","yellow","pink","black","orange","purple","beige",
       "brown","gray","cyan","magenta","red","green","red","green","blue","yellow","pink"])
147  plt.scatter(x, y, c=colors )
148  # plt.show()
149
150  plt.scatter(x, y, c=colors, cmap='viridis')
151  plt.colorbar()
152  plt.show()
153
```

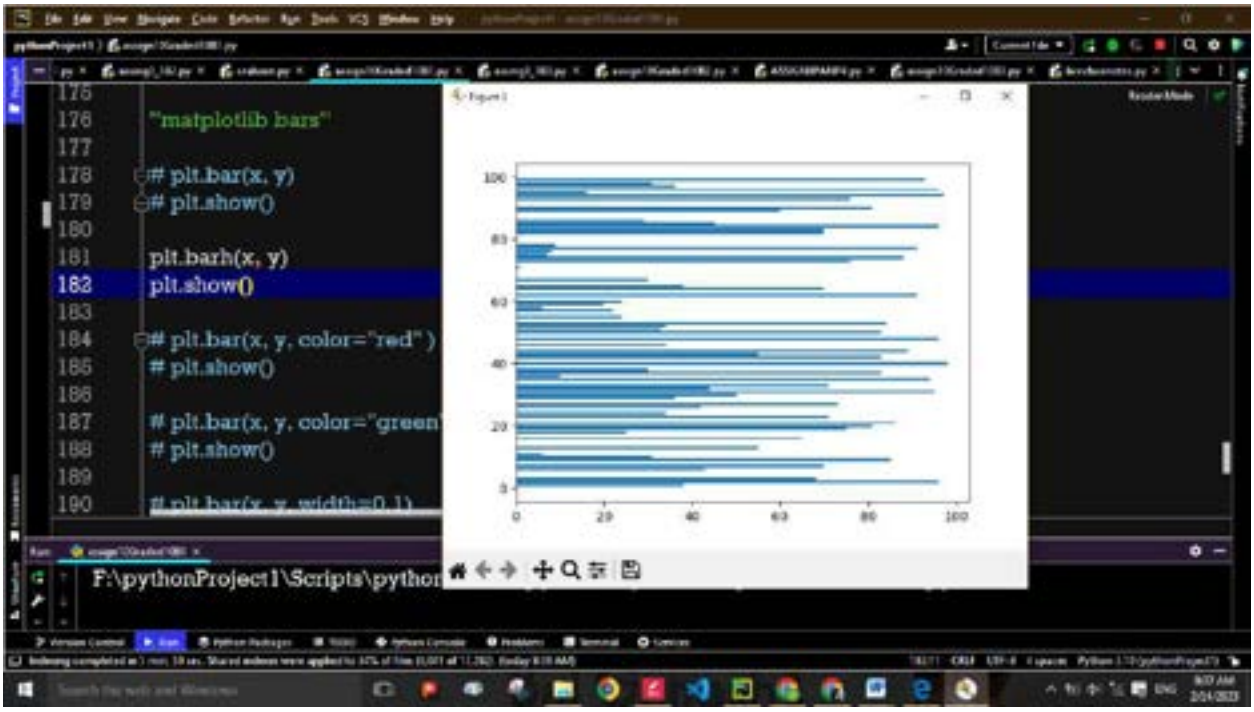
```
F:\pythonProject1\Scripts\python.exe F:\pythonProje
F:\pythonProject1\assign10Graded1081.py:150: User
  plt.scatter(x, y, c=colors, cmap='viridis')
```

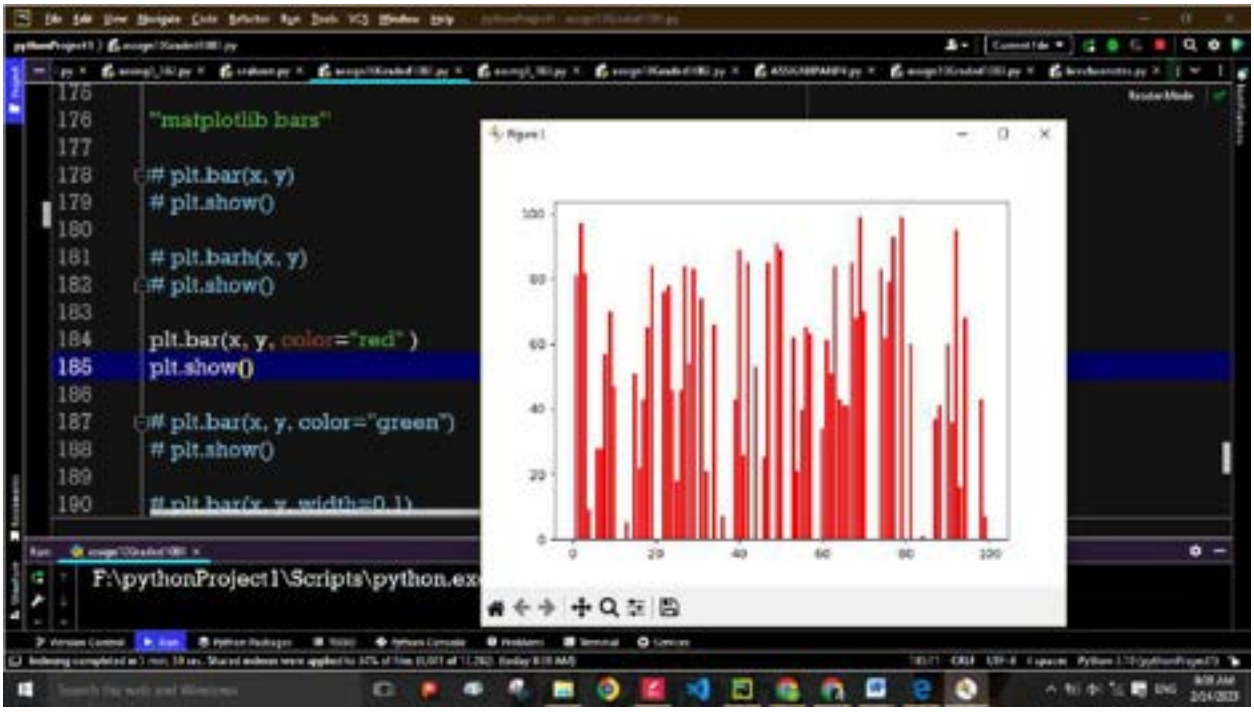


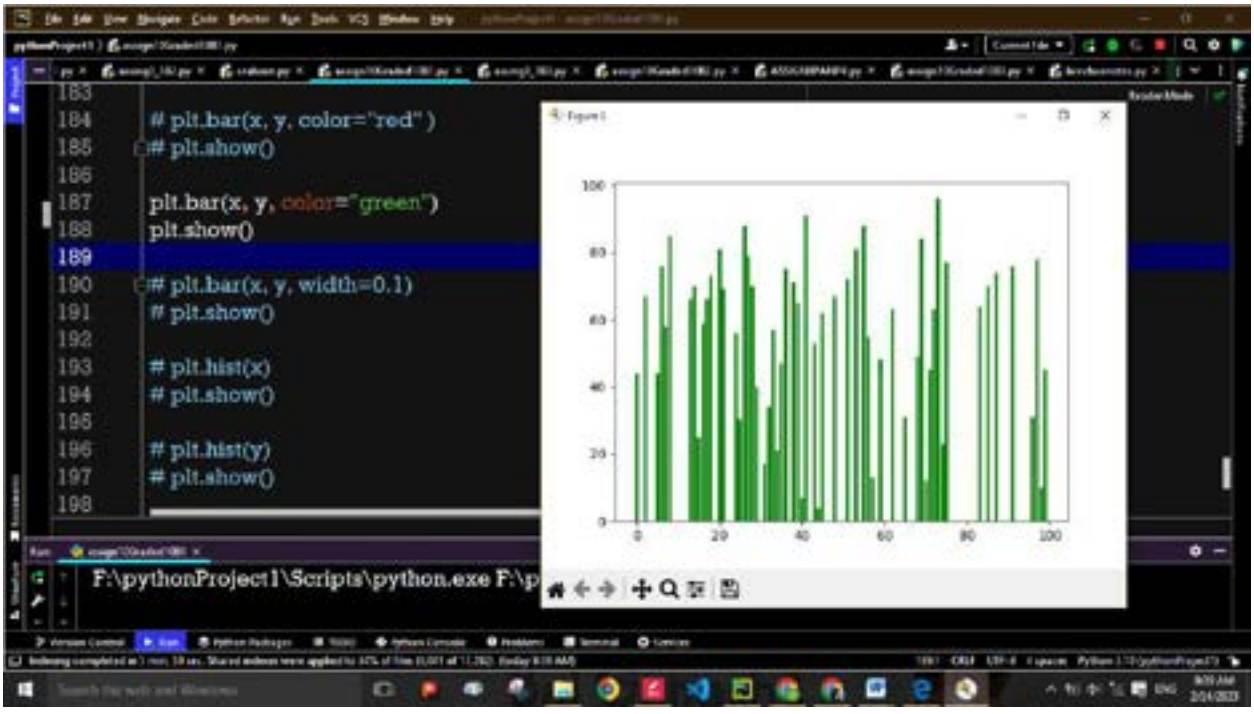

import matplotlib.pyplot as plt
import numpy as np
x=np.random.randint(100, size=(100))
y=np.random.randint(100, size=(100))
colors=np.random.randint(100, size=(100))
sizes=10 * np.random.randint(100, size=(100))
plt.scatter(x, y, c=colors, s=sizes, alpha=0.5, cmap='n
plt.colorbar()
plt.show()
# plt.scatter(x, y, c=colors, cmap='viridis')
# plt.show()
F:\pythonProject1\Scripts\python.exe F:\pythonProject1\ass

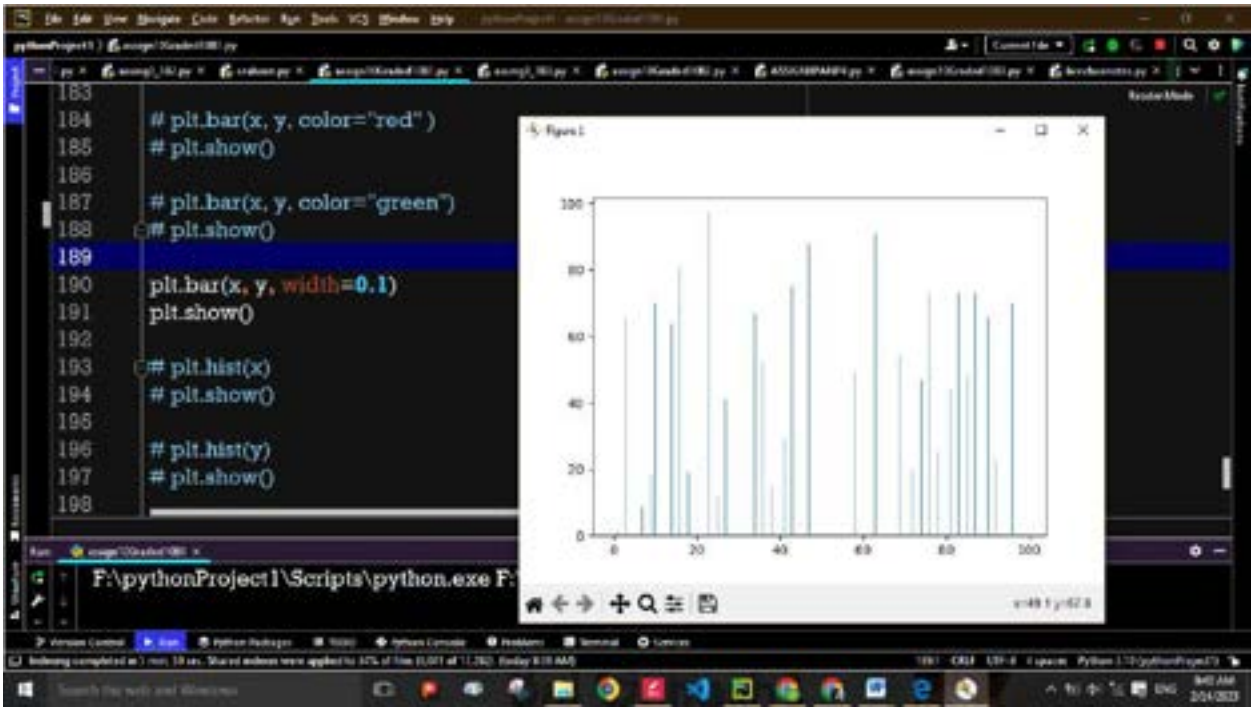

import numpy as np
x=np.random.randint(100, size=(100))
y=np.random.randint(100, size=(100))
colors=np.random.randint(100, size=(100
sizes=10 * np.random.randint(100, size=(
# plt.scatter(x, y, c=colors, s=sizes, alpha
# plt.colorbar()
# plt.show()
plt.scatter(x, y, s=sizes, alpha=0.5)
plt.show()
# plt.scatter(x, y, c=colors, cmap='viridis
F:\pythonProject1\Scripts\python.exe F:\pytho

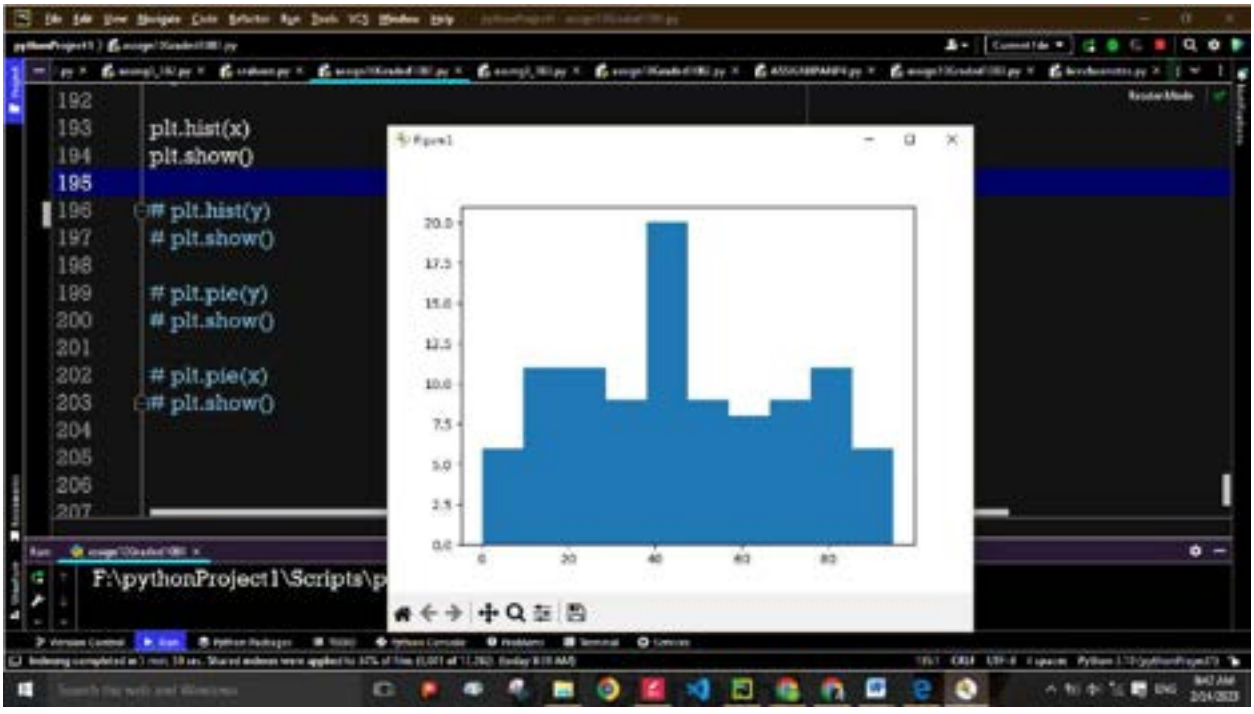

"matplotlib bars"
plt.bar(x, y)
plt.show()
# plt.barh(x, y)
# plt.show()
# plt.bar(x, y, color="red")
# plt.show()
# plt.bar(x, y, color="green")
# plt.show()
F:\pythonProject1\Scripts\python.


"matplotlib bars"
# plt.bar(x, y)
# plt.show()
plt.barh(x, y)
plt.show()
# plt.bar(x, y, color="red")
# plt.show()
# plt.bar(x, y, color="green
# plt.show()
F:\pythonProject1\Scripts\python


"matplotlib bars"
# plt.bar(x, y)
# plt.show()
# plt.barh(x, y)
# plt.show()
plt.bar(x, y, color="red")
plt.show()
# plt.bar(x, y, color="green")
# plt.show()
F:\pythonProject1\Scripts\python.ex


# plt.bar(x, y, color="red")
# plt.show()
plt.bar(x, y, color="green")
plt.show()
# plt.bar(x, y, width=0.1)
# plt.show()
# plt.hist(x)
# plt.show()
# plt.hist(y)
# plt.show()
F:\pythonProject1\Scripts\python.exe F:\p


183
184 # plt.bar(x, y, color="red")
185 # plt.show()
186
187 # plt.bar(x, y, color="green")
188 # plt.show()
189
190 plt.bar(x, y, width=0.1)
191 plt.show()
192
193 # plt.hist(x)
194 # plt.show()
195
196 # plt.hist(y)
197 # plt.show()
198
Figure 1
F:\pythonProject1\Scripts\python.exe F:


192
193 plt.hist(x)
194 plt.show()
195
196 # plt.hist(y)
197 # plt.show()
198
199 # plt.pie(y)
200 # plt.show()
201
202 # plt.pie(x)
203 # plt.show()
204
205
206
207
Figure 1
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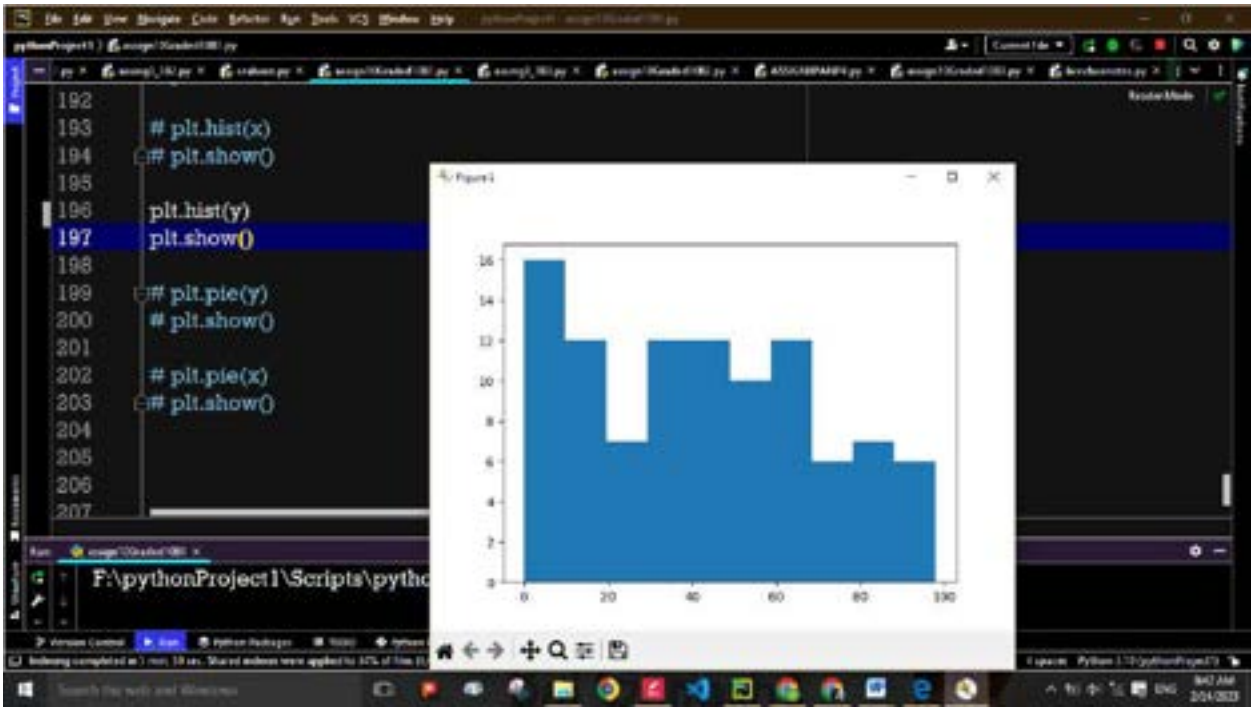
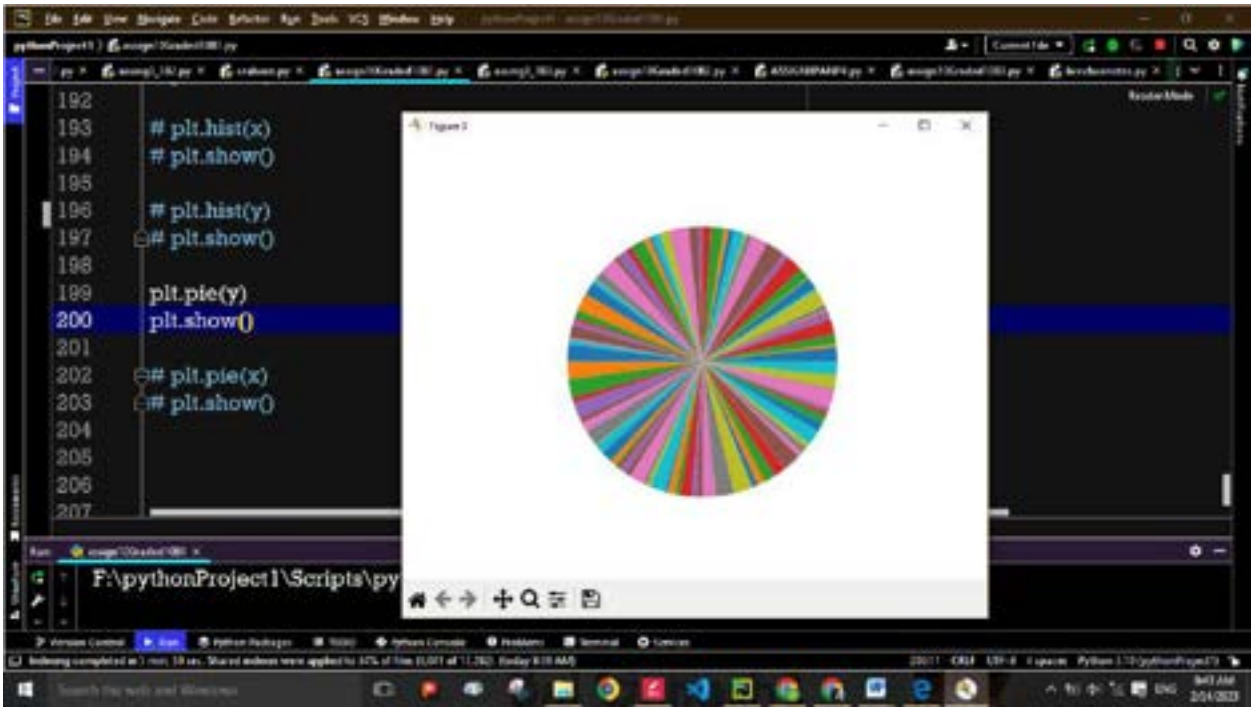
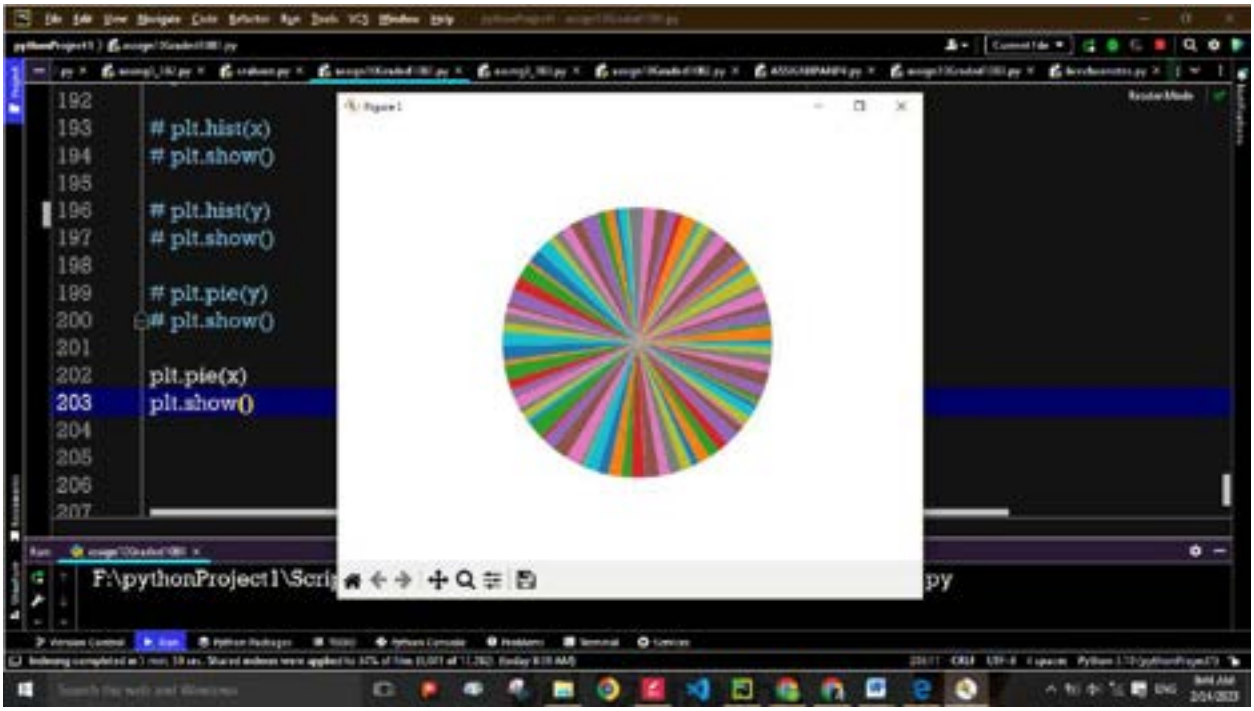

192
193 # plt.hist(x)
194 # plt.show()
195
196 plt.hist(y)
197 plt.show()
198
199 # plt.pie(y)
200 # plt.show()
201
202 # plt.pie(x)
203 # plt.show()
204
205
206
207
F:\pythonProject1\Scripts\pytho


192
193 # plt.hist(x)
194 # plt.show()
195
196 # plt.hist(y)
197 # plt.show()
198
199 plt.pie(y)
200 plt.show()
201
202 # plt.pie(x)
203 # plt.show()
204
205
206
207
F:\pythonProject1\Scripts\py


192
193 # plt.hist(x)
194 # plt.show()
195
196 # plt.hist(y)
197 # plt.show()
198
199 # plt.pie(y)
200 # plt.show()
201
202 plt.pie(x)
203 plt.show()
204
205
206
207
Figure 1
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py

In [3]:
```
import pandas as pd
import seaborn as sns
import numpy as np
import matplotlib.pyplot as plt
```

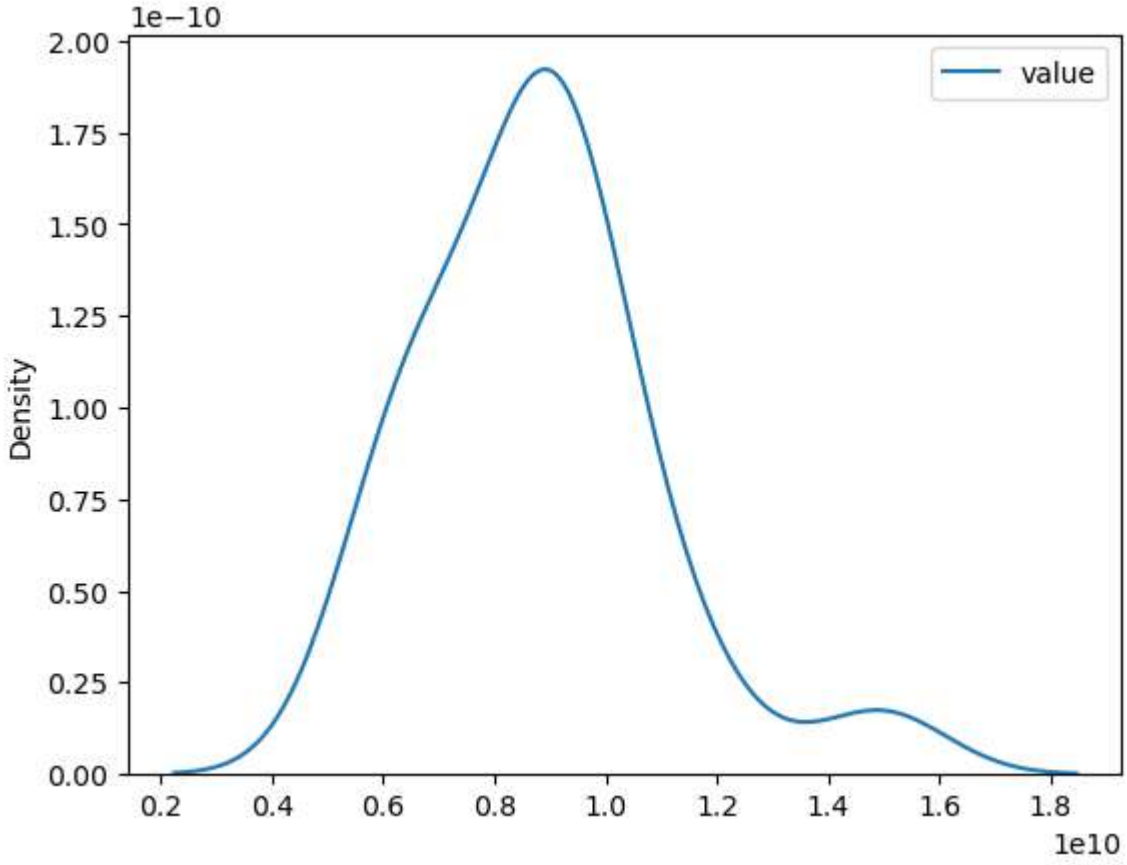
In [2]:
```
v1=pd.read_csv("F:/pythonProject1/data_1.csv")
v1
```

Out[2]:

	value
0	9092102363
1	6472709796
2	10160947368
3	9341351130
4	14949939352
5	7255855965
6	10612729729
7	9371213738
8	8973607594
9	6193104781
10	9633522721
11	11674500000
12	8374481326
13	8574481326
14	8776534994
15	9046301304
16	6746301304
17	5746301304
18	8361462899
19	6561462899

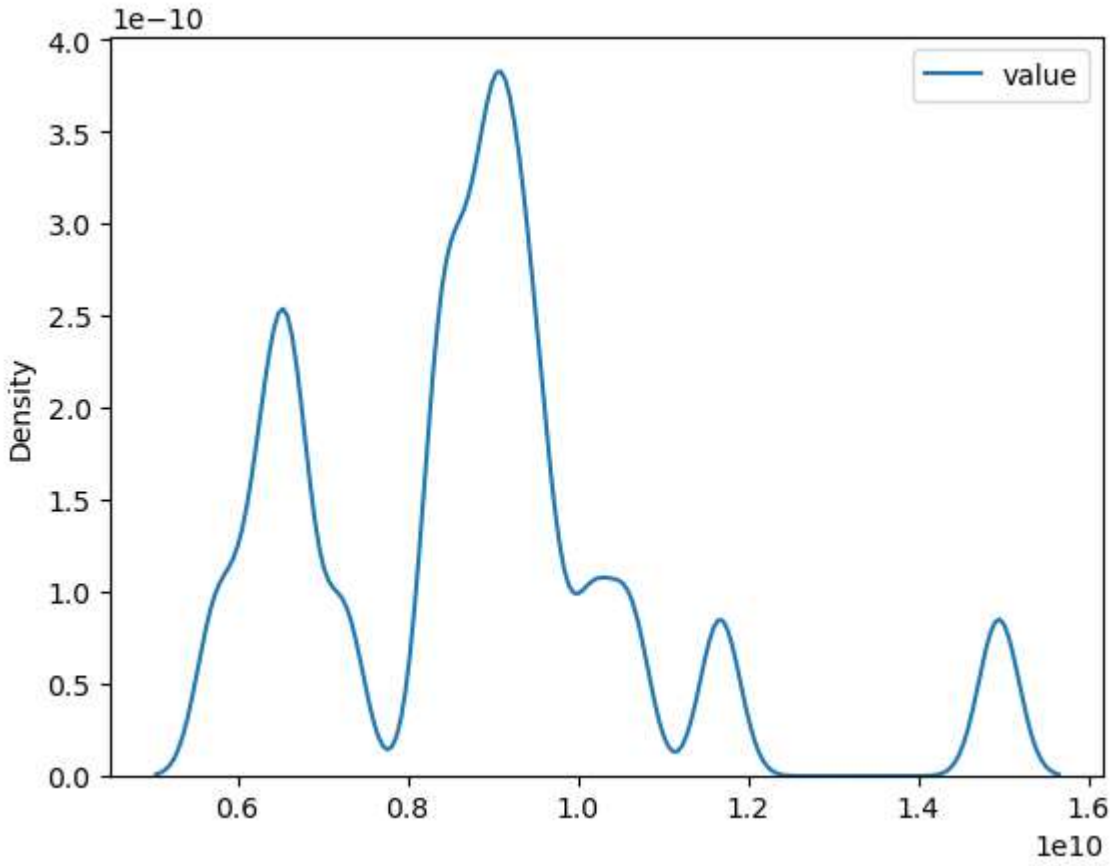
In [5]:
```
sns.kdeplot(data=v1)
```

Out[5]:
```
<AxesSubplot:ylabel='Density'>
```



In [6]:
```
sns.kdeplot(data=v1, bw_adjust=.2)
```

Out[6]:
```
<AxesSubplot:ylabel='Density'>
```



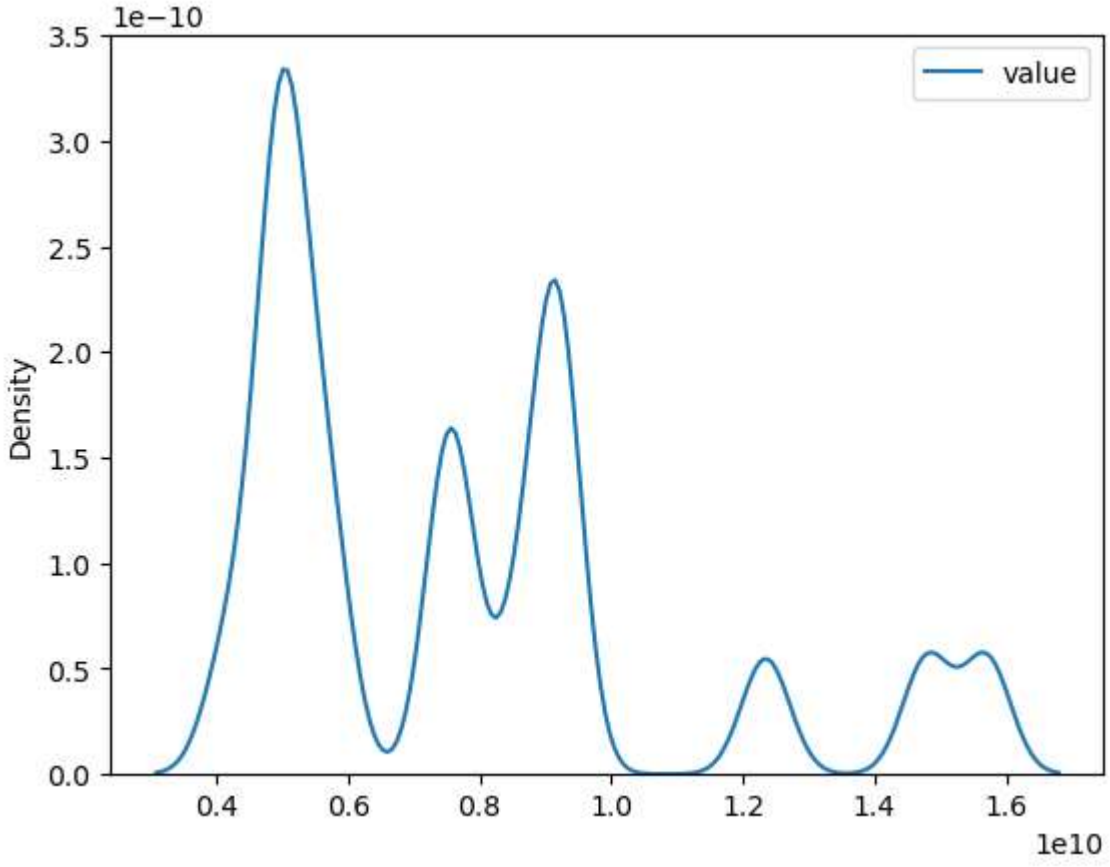
In [9]:
```
v2=pd.read_csv("F:/pythonProject1/data_2.csv")
v2
```

Out[9]:

	value
0	4961462899
1	5073212169
2	5173212169
3	9173212169
4	9173212169
5	8573212169
6	9173212169
7	9173212169
8	15699236601
9	5656618421
10	5732121169
11	7506454545
12	4181023880
13	14795034482
14	7620450578
15	4765268468
16	5025168365
17	7558337500
18	4987608460
19	12344579710

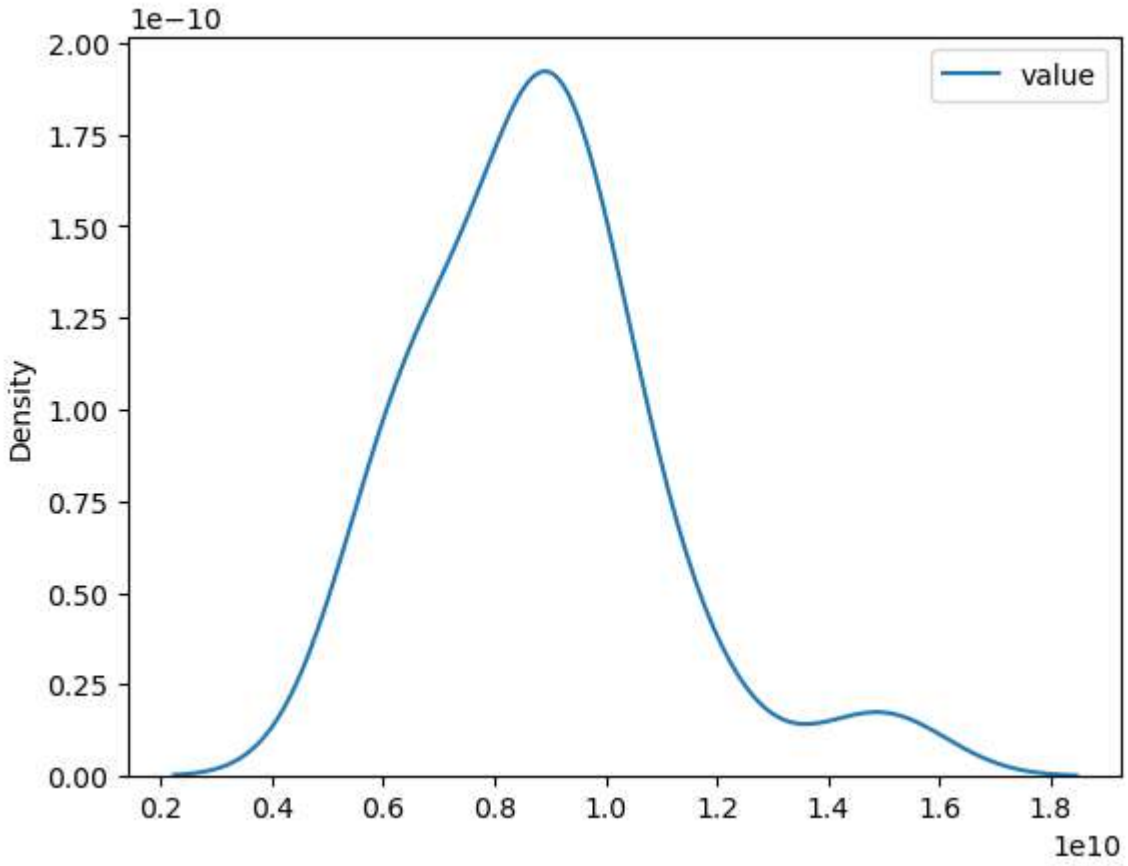
In [10]:
```
sns.kdeplot(data=v2, bw_adjust=.2)
```

Out[10]:
```
<AxesSubplot:ylabel='Density'>
```



In [12]:
```
sns.kdeplot(data=v1)
```

Out[12]:
```
<AxesSubplot:ylabel='Density'>
```



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