Data Analysis using Python-Task3

March 24, 2024

[1]:
```
import pandas as pd
```

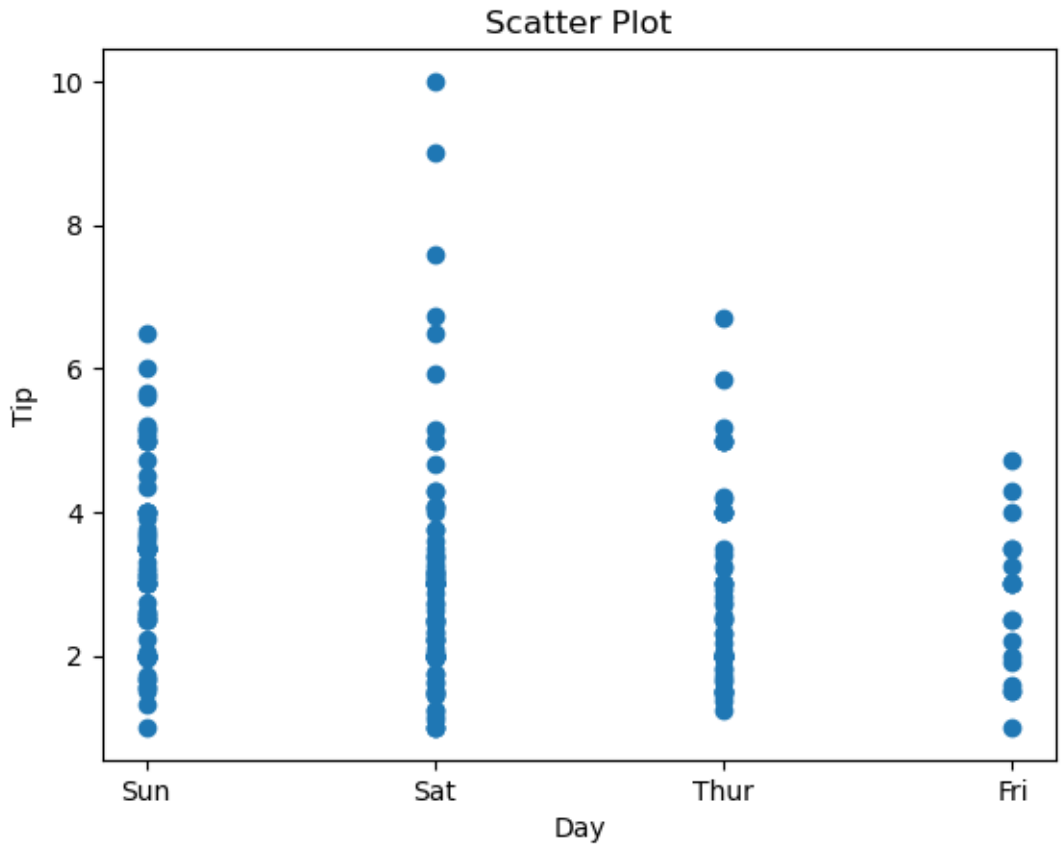
[2]:
```
# Reading the database
data = pd.read_csv("C:\\Users\\Dell\\Downloads\\tips.csv")
```

[3]:
```
# Printing the top 10 rows
display(data.head(10))
```

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4
5	25.29	4.71	Male	No	Sun	Dinner	4
6	8.77	2.00	Male	No	Sun	Dinner	2
7	26.88	3.12	Male	No	Sun	Dinner	4
8	15.04	1.96	Male	No	Sun	Dinner	2
9	14.78	3.23	Male	No	Sun	Dinner	2

[4]:
```
import pandas as pd
import matplotlib.pyplot as plt
# Reading the database
data = pd.read_csv("C:\\Users\\Dell\\Downloads\\tips.csv")
# Scatter Plot with day against tip
plt.scatter(data['day'], data['tip'])
# Adding Title to the plot
plt.title("Scatter Plot")
# Setting the X and Y labels
plt.xlabel('Day')
plt.ylabel('Tip')
```

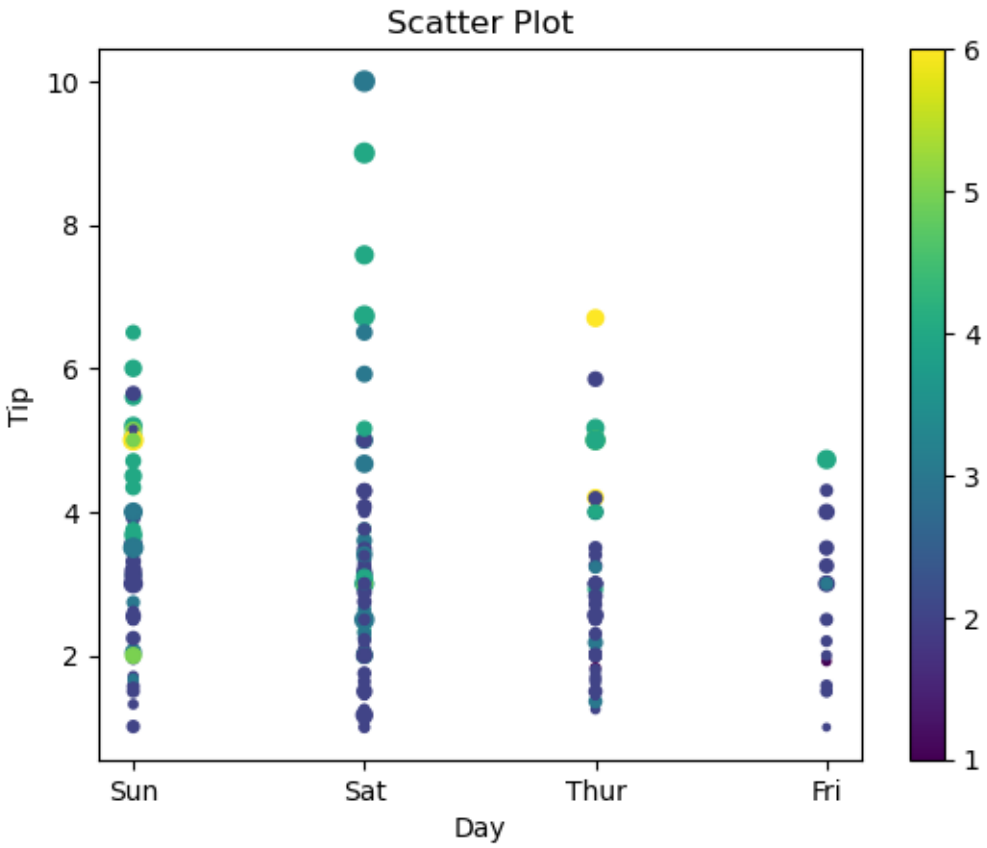
[4]:
```
Text(0, 0.5, 'Tip')
```



[5]:
```
import pandas as pd
import matplotlib.pyplot as plt
```

[6]:
```
# Reading the database
data = pd.read_csv("C:\\Users\\Dell\\Downloads\\tips.csv")
```

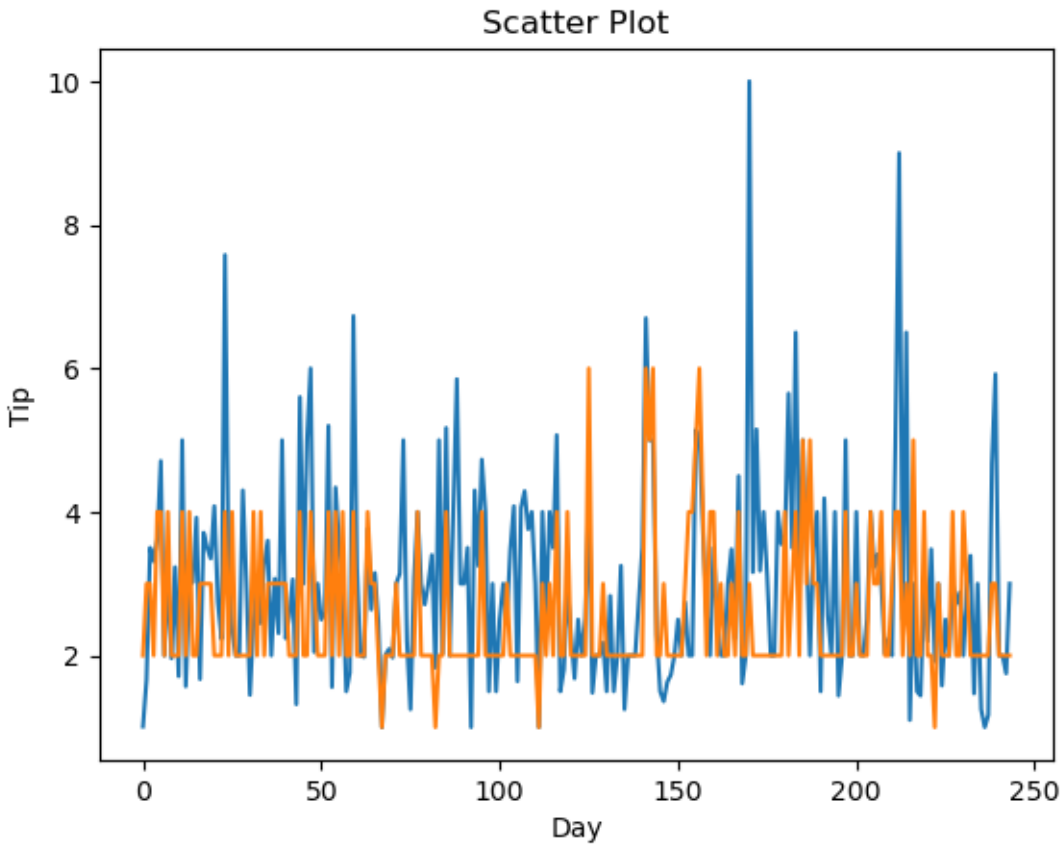
[7]:
```
# Scatter plot with day against tip
plt.scatter(data['day'], data['tip'], c=data['size'], s=data['total_bill'])
# Adding Title to the plot
plt.title("Scatter Plot")
# Settingthe X and Y labels
plt.xlabel('Day')
plt.ylabel('Tip')

plt.colorbar()

plt.show()
```



[8]:
```
import pandas as pd
import matplotlib.pyplot as plt
```

[9]:
```
# Reading the database
data = pd.read_csv("C:\\Users\\Dell\\Downloads\\tips.csv")
```

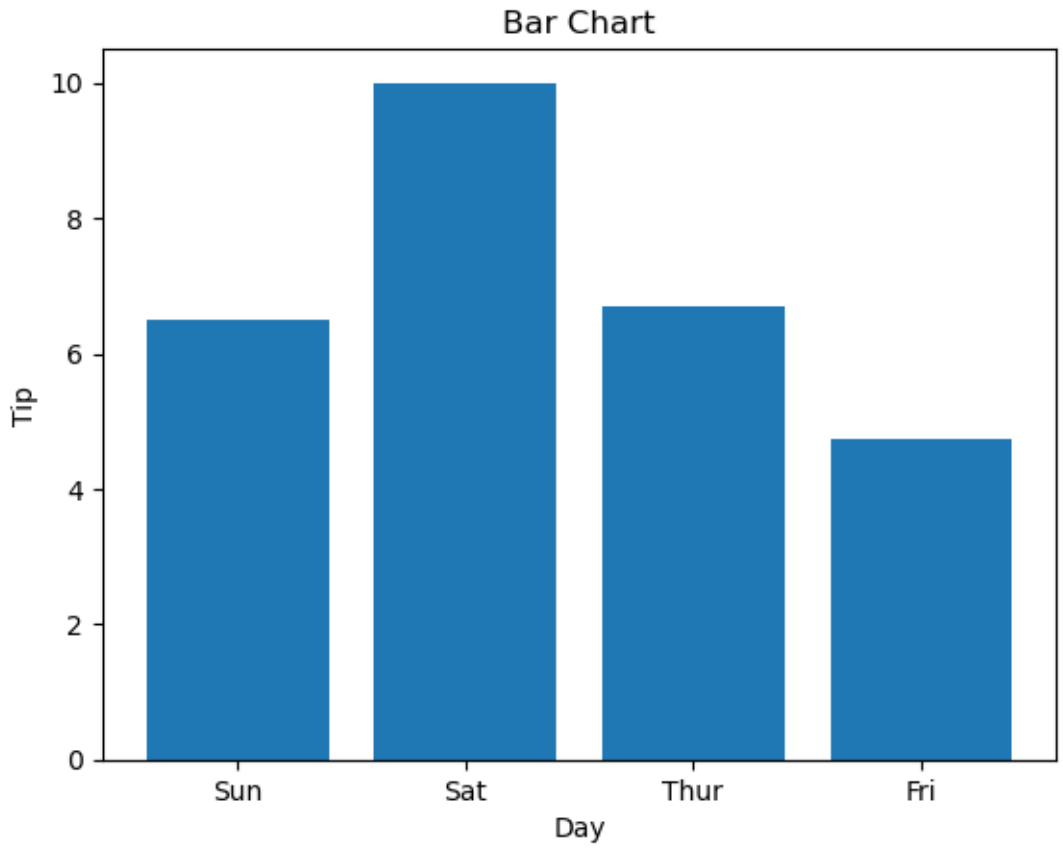
[10]:
```
# Scatter plot with day against tip
plt.plot(data['tip'])
plt.plot(data['size'])
# Adding Title to the plot
plt.title("Scatter Plot")
# Setting the X and Y labels
plt.xlabel('Day')
plt.ylabel('Tip')

plt.show()
```



[11]:
```
import pandas as pd
import matplotlib.pyplot as plt
```

[12]:
```
# Reading the database
data = pd.read_csv("C:\\Users\\Dell\\Downloads\\tips.csv")
```

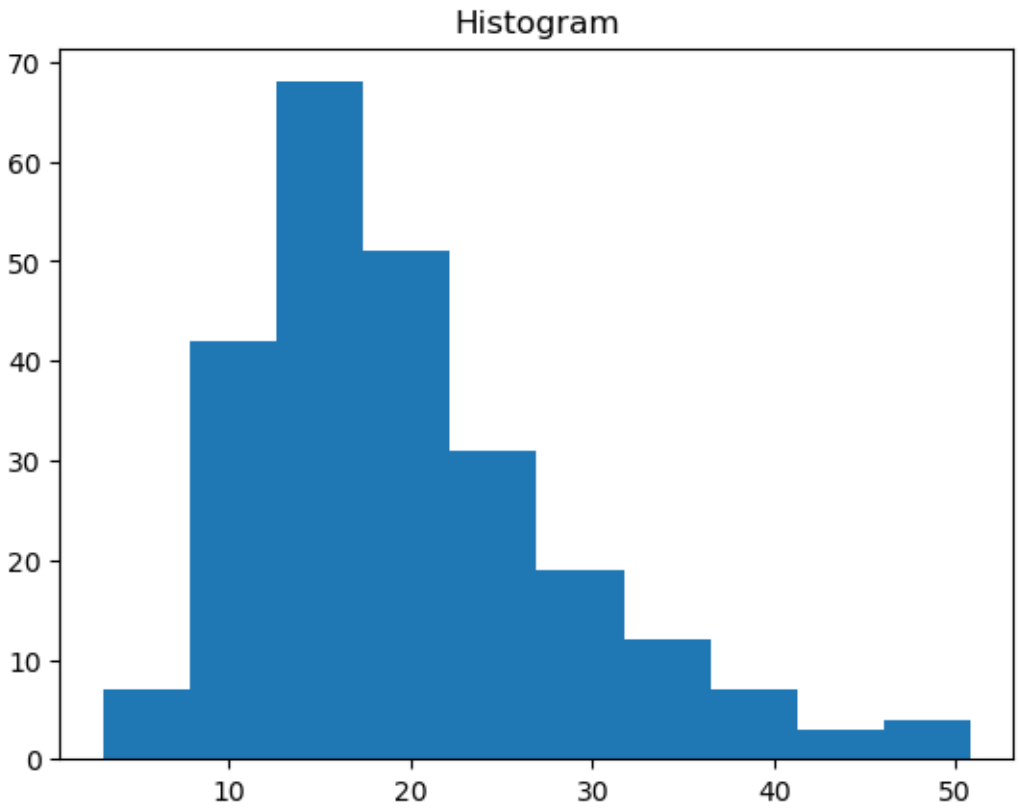
[14]:
```
# Bar chart with day against tip
plt.bar(data['day'], data['tip'])
# Adding Title to the bar
plt.title("Bar Chart")
# Setting the X and Y labels
plt.xlabel('Day')
plt.ylabel('Tip')
# Adding the legends
plt.show()
```



[15]:
```
import pandas as pd
import matplotlib.pyplot as plt
```

[16]:
```
# Reading the database
data = pd.read_csv("C:\\Users\\Dell\\Downloads\\tips.csv")
```

[18]:
```
# Histogram of total_bills
plt.hist(data['total_bill'])
# Adding Title to the Histogram
plt.title("Histogram")
# Adding the legends
plt.show()
```



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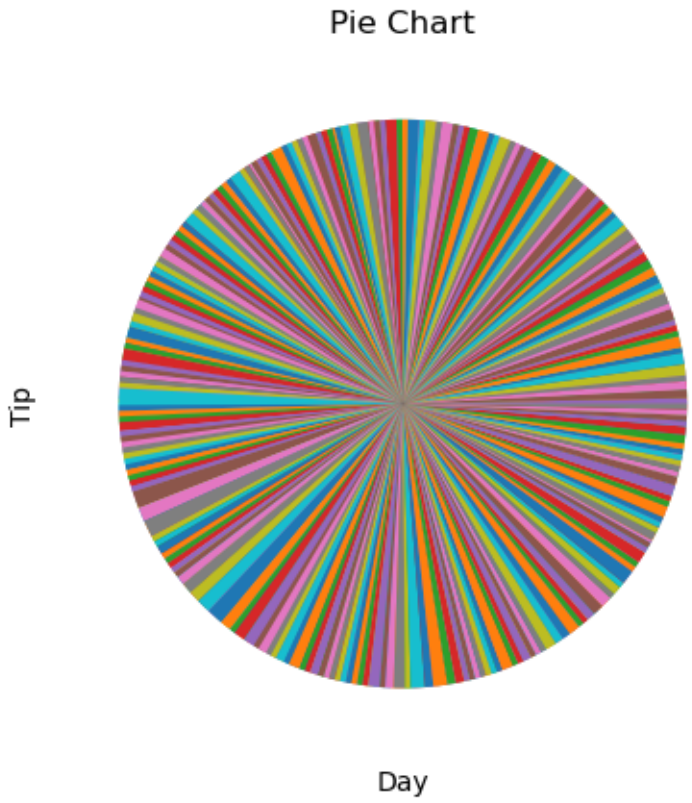
```
import pandas as pd
import matplotlib.pyplot as plt
```

[2]:
```
# Reading the database
data = pd.read_csv("C:\\Users\\Dell\\Downloads\\tips.csv")
```

[23]:
```
# Pie chart with day against tip
plt.pie(data['tip'])
plt.pie(data['size'])
# Adding Title to the pie
plt.title("Pie Chart")
# Setting the X and Y labels
plt.xlabel('Day')
plt.ylabel('Tip')

plt.show()
```


Pie Chart
Tip
Day

[ ]: