

4. Scatter Plot

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[44]: import matplotlib.pyplot as plt
import pandas as pd
# Reading the tips.csv file
data = pd.read_csv(r"/Users/babarhussain/Desktop/tips.csv")

# initializing the data
x = data['day']
y = data['total_bill']

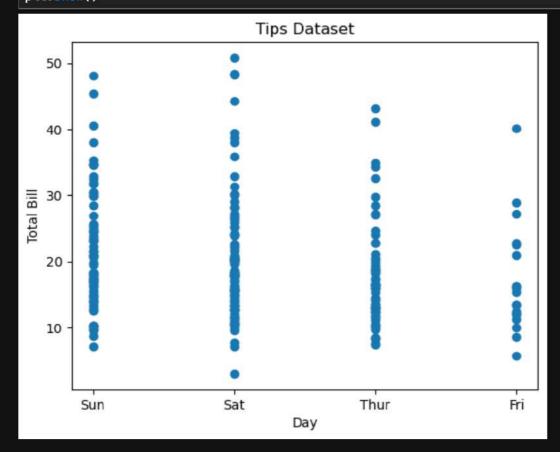
# plotting the data
plt.scatter(x, y)

# Adding title to the plot
plt.title("Tips Dataset")

# Adding label on the y-axis
plt.ylabel('Total Bill')

# Adding label on the x-axis
plt.xlabel('Day')

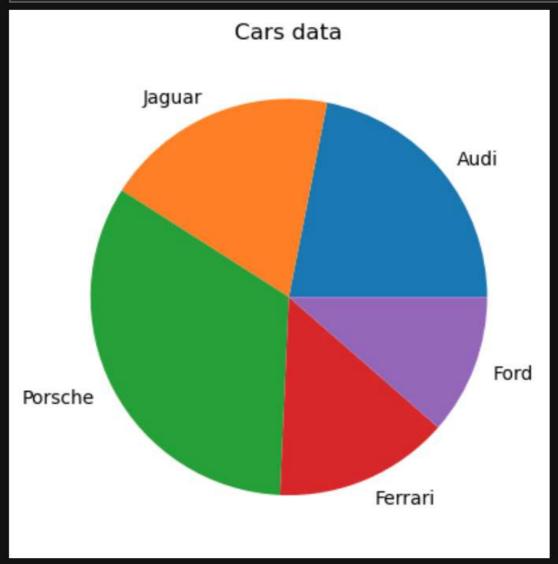
plt.show()
```



5. Pie Chart

```
[57]: import matplotlib.pyplot as plt
import pandas as pd
# Reading the tips.csv file
data = pd.read_csv(r"/Users/babarhussain/Desktop/tips.csv")
# initializing the data
cars = ["Audi", "Jaguar", "Porsche", "Ferrari", "Ford"]
models = [23, 20, 35,15,12]
# plotting the data
plt.pie(models, labels=cars)
# Adding title to the plot
plt.title("Cars data")

plt.show()
```







Customizing Pie Chart

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[91]:
      # explode: Moving the wedges of the plot
      #autopct: Label the wedge with their numerical value.
      # shadow: Used to create shadow of wedge.
      import matplotlib.pyplot as plt
      import pandas as pd
      # Reading the tips.csv file
      data = pd.read_csv(r"/Users/babarhussain/Desktop/tips.csv")
      # initializing the data
      cars = ['AUDI', 'BMW', 'FORD',
               'TESLA', 'JAGUAR',]
      data = [23, 13, 35, 15, 12]
      # exlode : Moving the wedges of the plot
      explode = [0.1, 0.3, 0, 0, 0]
      # color: Attribute is used to provide color to the wedges.
      colors = ("Orange", "black", "Purple", "Green", "pink")
      # plotting the data
      plt.pie(data, labels=cars, explode=explode, colors=colors,
      # show Pie chart
      plt.show()
```

