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# Date:-10/07/2021
# Assignment of Day5
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# Question1
# What is Plotly?


# Plotly is an open source python library built on top of the plotly Javascript
#  library which enables python users to create beautiful interactive web-based
#  visualization.


# Question2
# Where is it used?


# Plotly is used to create data visualization.
#  We can use it with Python and few other languages.
#  It's incridibly user friendly, has extensive documentation, and allows we to
#  create very powerful graphs and charts with a few lines of code.


# Question3
# Plot a Pie Chart of Indian Car Companies market share % values.
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib as mpl
import matplotlib.pyplot as plt
%matplotlib inline
from numpy.random import randn, randint, uniform, sample


companies = 'MarutiSuzuki', 'Hyundai', 'KiaMotor', 'Renault', 'Toyota', 'HondaCars'
sharemarket = [587345, 219130, 67588, 40679, 36937, 35700]
colors = ['gold', 'yellowgreen', 'lightcoral', 'lightskyblue', 'pink', 'purple']
```

```
explode = (0, 0, 0, 0, 0, 0)
plt.pie(sharemarket, explode=explode, labels=companies, colors=colors, autopct='%1.2f%%',shadow=False)
plt.axis('equal')
plt.show
```

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<function matplotlib.pyplot.show>
```

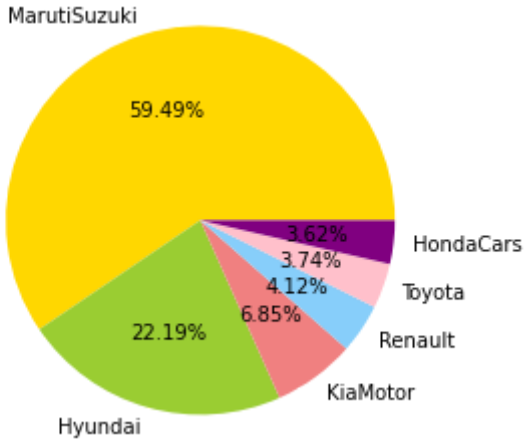


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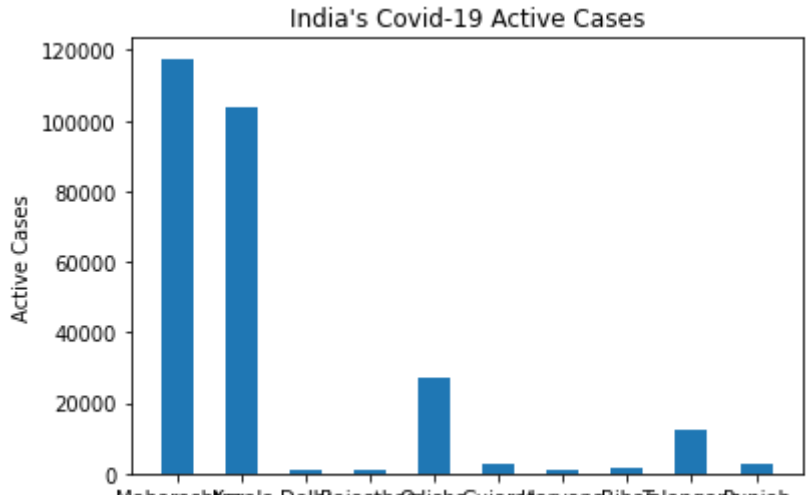
# Question4
# Plot a Bar Chart with India's Covid-19 active cases (Max 10 State)


states = ['Maharashtra', 'Kerala', 'Delhi', 'Rajasthan', 'Odisha', 'Gujarat', 'Haryana', 'Bihar', 'Telangana', 'Punjab']
activecases = [117575, 103563, 1016, 1260, 27399, 2527, 1234, 1539, 12454, 2538]
bar1 = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
w=0.5
plt.bar(bar1,activecases,w,)
plt.title("India's Covid-19 Active Cases")
plt.xlabel("States")
plt.ylabel("Active Cases")
plt.xticks(bar1,states)
plt.show()
```

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# Question5
# Plot a Line Chat with India's active covid-19 case recovery (maximum 12 Months)


import plotly.graph_objects as go
import numpy as np
states = ['Maharashtra','Kerala','Delhi','Rajasthan','Odisha','Gujarat','Haryana','Bihar','Telangana','Punjab']
recovery = [5845315,2843909,1408456,942469,887420,811169,758144,711279,609947,577624]
fig = go.Figure(data=[go.Scatter(x=states,y=recovery)])
fig.show()
```

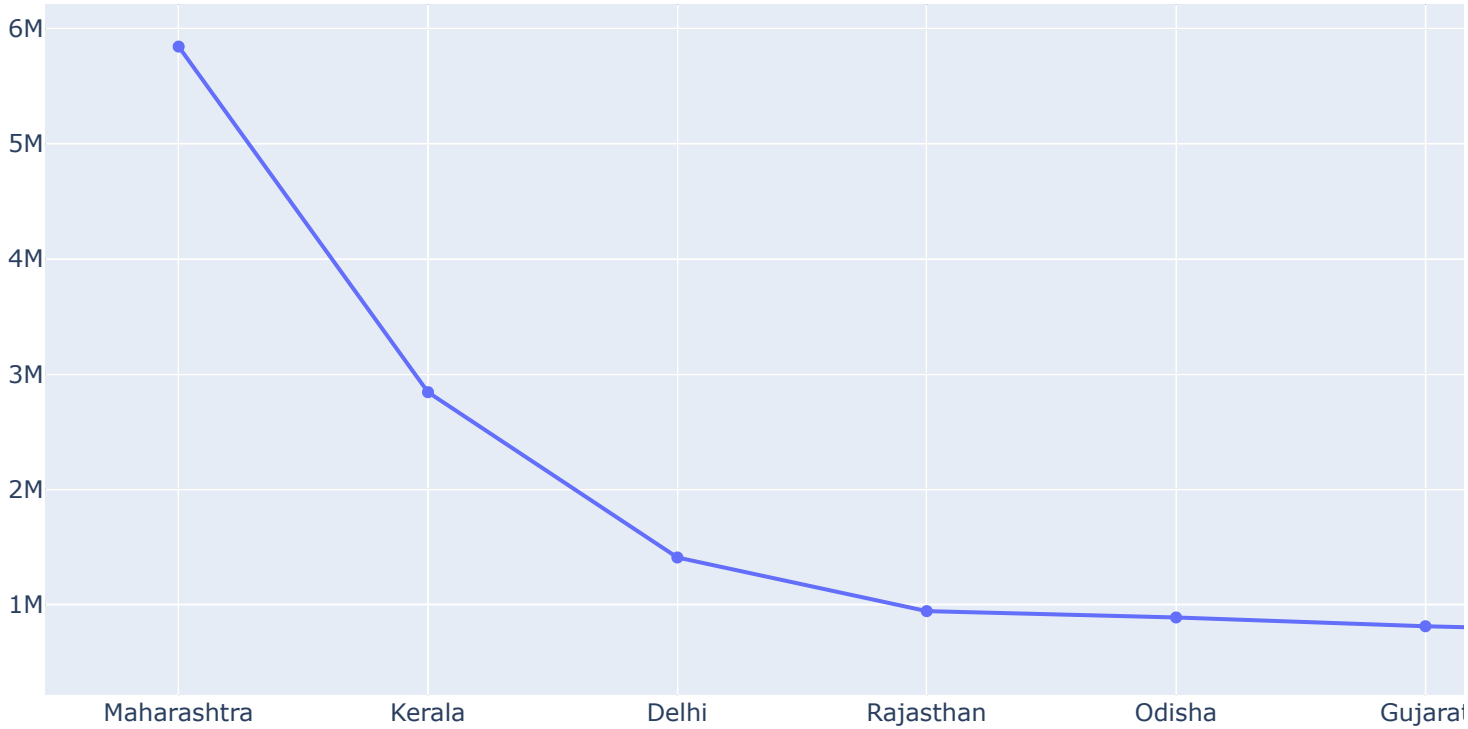
6M
5M
4M
3M
2M
1M
Maharashtra
Kerala
Delhi
Rajasthan
Odisha
Gujarat