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

In [11]: df = pd.read_csv(r"C:\Users\ahmed\OneDrive\Desktop\Panda tutorial\Ice Cream Ratings
 df = df.set_index('Date')
 df

Out[11]: Flavor Rating Texture Rating Overall Rating

Date			
01/01/2022	0.223090	0.040220	0.600129
01/02/2022	0.635886	0.938476	0.106264
01/03/2022	0.442323	0.044154	0.598112
01/04/2022	0.389128	0.549676	0.489353
01/05/2022	0.386887	0.519439	0.988280
01/06/2022	0.877984	0.193588	0.832827
01/07/2022	0.140995	0.325110	0.105147

In [91]: print(plt.matplotlib.style)

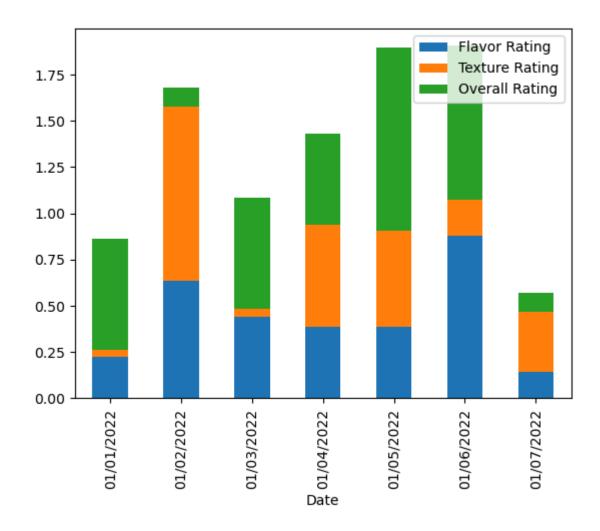
<module 'matplotlib.style' from 'C:\\Users\\ahmed\\anaconda3\\Lib\\site-packages\\matplotlib\\style__init__.py'>

In [29]: df.plot(kind = 'line', title = 'Ice cream rating', xlabel = 'daily ratings', ylabel

1.0 Flavor Rating Texture Rating Overall Rating 0.6 O.2 O.1/01/202201/02/202201/03/202201/04/202201/05/202201/06/202201/07/2022 daily ratings

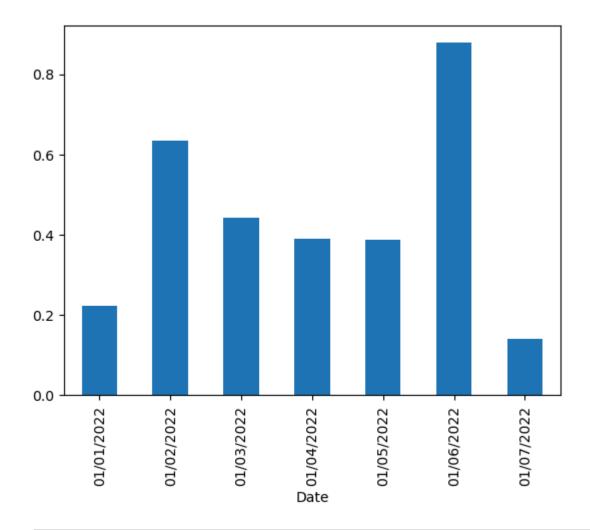
```
In [31]: df.plot(kind = 'bar', stacked = True)
```

Out[31]: <Axes: xlabel='Date'>



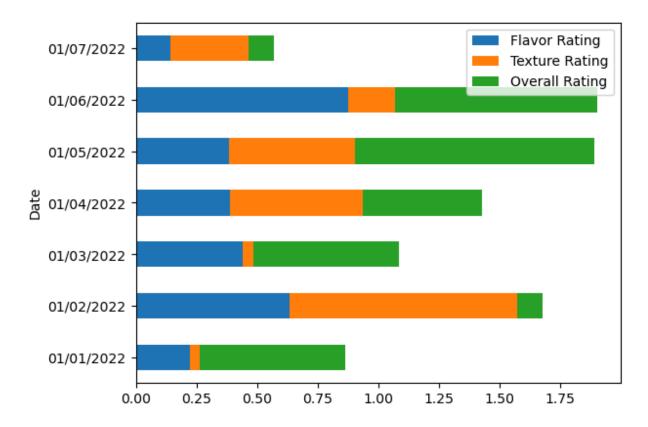
In [37]: df['Flavor Rating'].plot(kind = 'bar', stacked = True)

Out[37]: <Axes: xlabel='Date'>



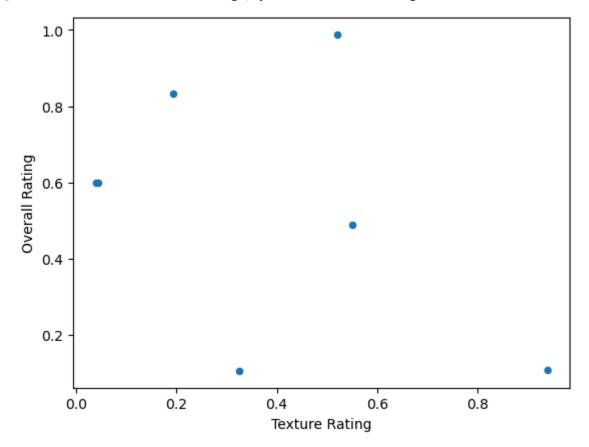
In [39]: df.plot.barh(stacked = True)

Out[39]: <Axes: ylabel='Date'>



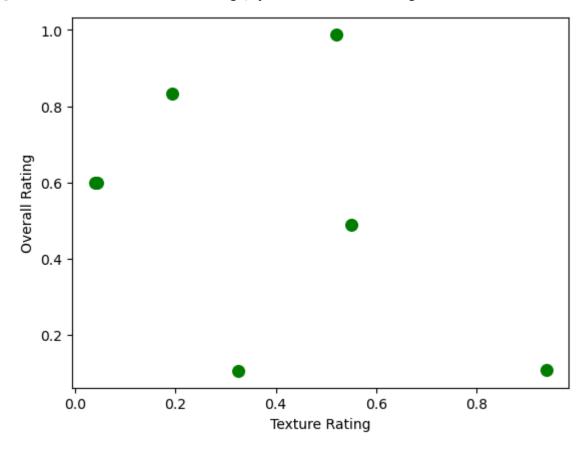
In [41]: df.plot.scatter(x = 'Texture Rating', y = 'Overall Rating')

Out[41]: <Axes: xlabel='Texture Rating', ylabel='Overall Rating'>



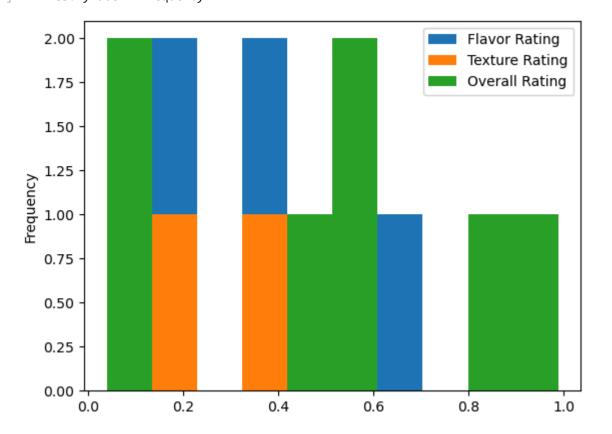
In [47]: df.plot.scatter(x = 'Texture Rating', y = 'Overall Rating', s = 70, c = 'green')

Out[47]: <Axes: xlabel='Texture Rating', ylabel='Overall Rating'>



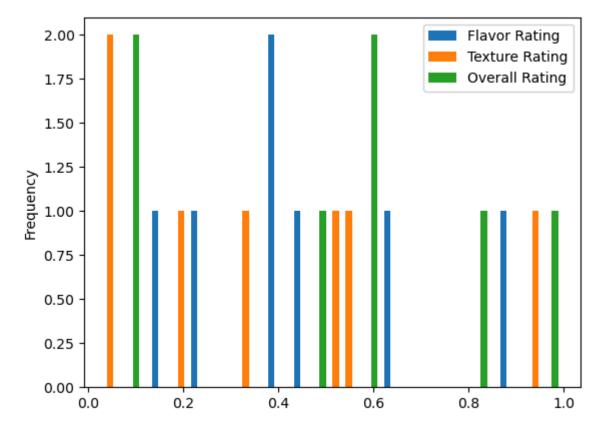
In [49]: df.plot.hist()

Out[49]: <Axes: ylabel='Frequency'>



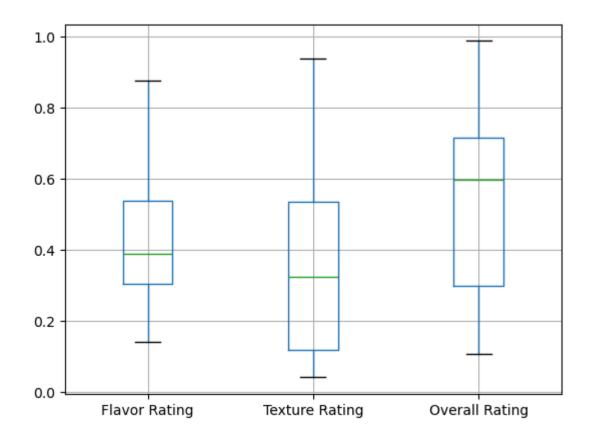
```
In [53]: df.plot.hist(bins = 70)
```

Out[53]: <Axes: ylabel='Frequency'>



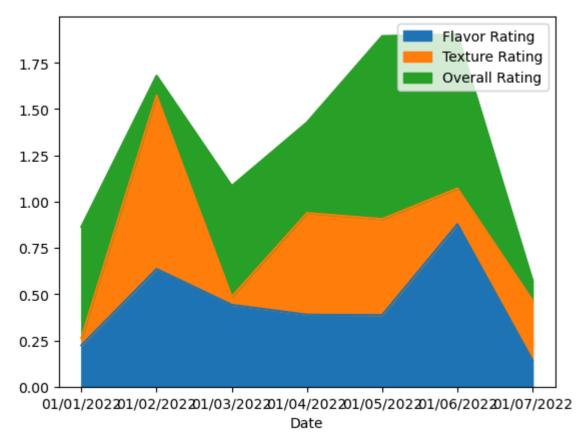
In [55]: df.boxplot()

Out[55]: <Axes: >



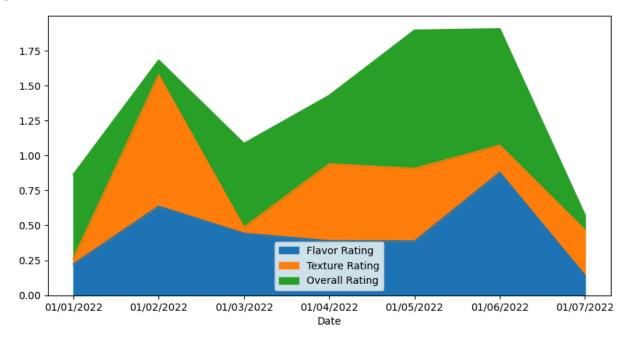
In [61]: df.plot.area()

Out[61]: <Axes: xlabel='Date'>



```
In [71]: df.plot.area(figsize = (10,5))
```

Out[71]: <Axes: xlabel='Date'>



In [81]: df.plot.pie(y = 'Flavor Rating', figsize = (8,7))

Out[81]: <Axes: ylabel='Flavor Rating'>

