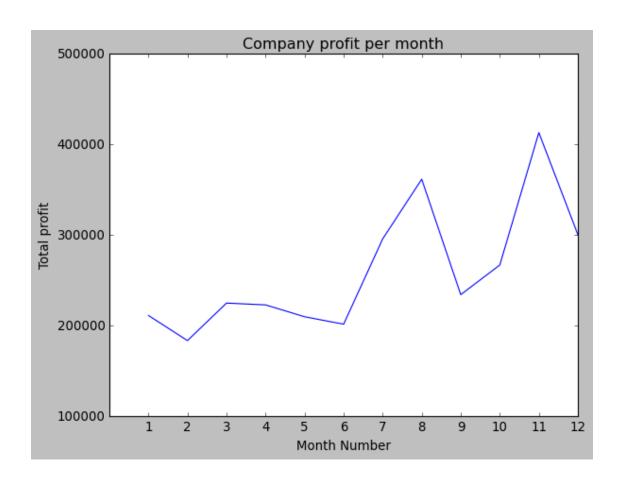
April 10, 2024

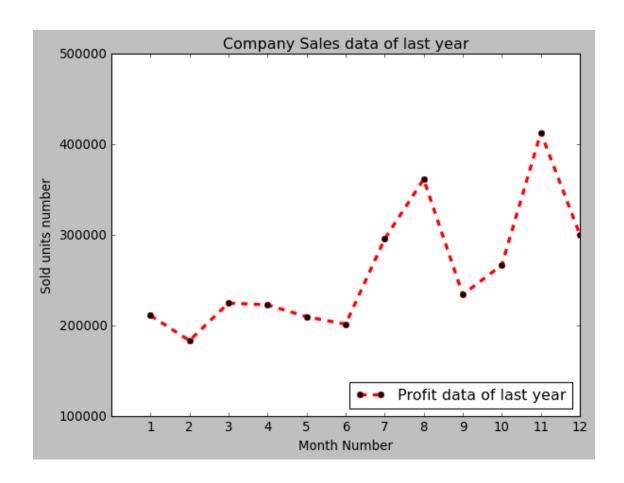
```
[3]: import matplotlib as mpl
  import matplotlib.pyplot as plt
  import seaborn as sns
  import numpy as np
  import pandas as pd
  plt.style.use('classic')

[4]: sales = pd.read_csv('sales.csv')

[18]: fig1 = plt.figure()
  plt.plot(sales['month_number'], sales['total_profit'], '-')
  plt.xticks(np.arange(1, 13, step=1))
  plt.yticks(np.arange(100000, 600000, step=100000))
  plt.title("Company profit per month")
  plt.xlabel('Month Number')
  plt.ylabel('Total profit')
[18]: Text(0, 0.5, 'Total profit')
```

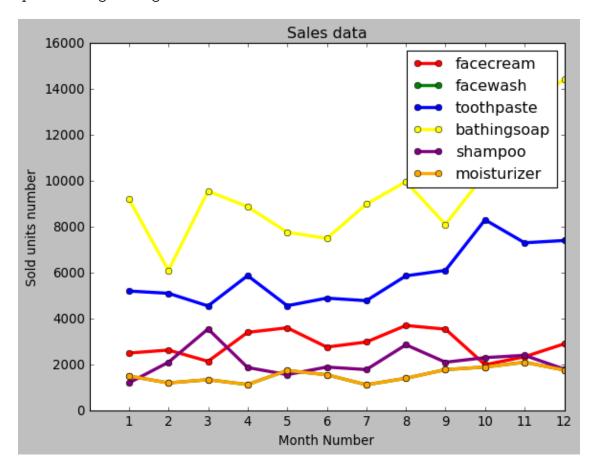


[32]: <matplotlib.legend.Legend at 0x7e0fb5fca790>



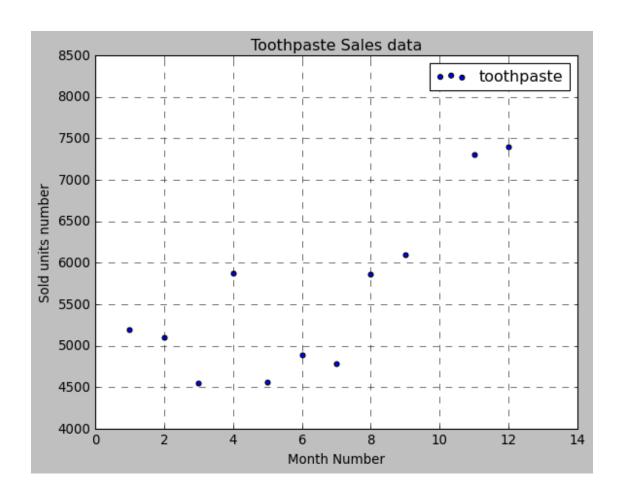
```
[40]: plt.plot(sales['month_number'], sales['facecream'], '-', color="red", ___
       →marker="o", linewidth=3)
      plt.plot(sales['month_number'], sales['facewash'], '-', color="green",
       →marker="o", linewidth=3)
      plt.plot(sales['month_number'], sales['toothpaste'], '-', color="blue", __
       →marker="o", linewidth=3)
      plt.plot(sales['month_number'], sales['bathingsoap'], '-', color="yellow", __
       →marker="o", linewidth=3)
      plt.plot(sales['month_number'], sales['shampoo'], '-', color="purple", __
       →marker="o", linewidth=3)
      plt.plot(sales['month_number'], sales['moisturizer'], '-', color="orange", __
       plt.xticks(np.arange(1, 13, step=1))
      plt.title("Sales data")
      plt.xlabel('Month Number')
      plt.ylabel('Sold units number')
      plt.legend(['facecream', 'facewash', 'toothpaste', 'bathingsoap', 'shampoo',
                  'moisturizer'],loc='upper right', fontsize='large')
      # facewash, toothpaste, bathingsoap, shampoo, moisturizer,
```

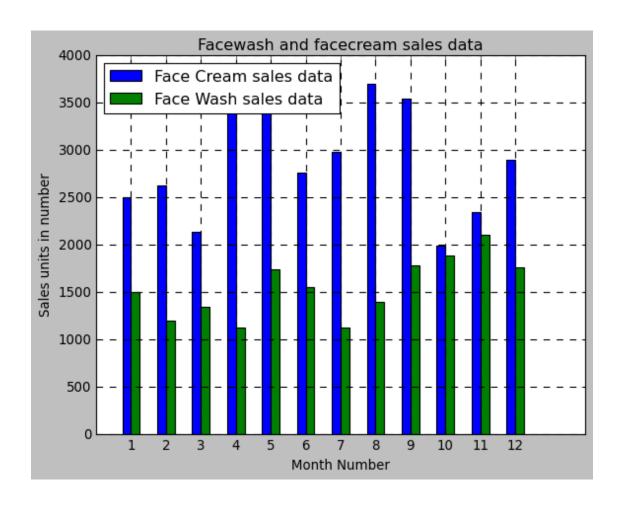
[40]: <matplotlib.legend.Legend at 0x7e0fb5c46a90>

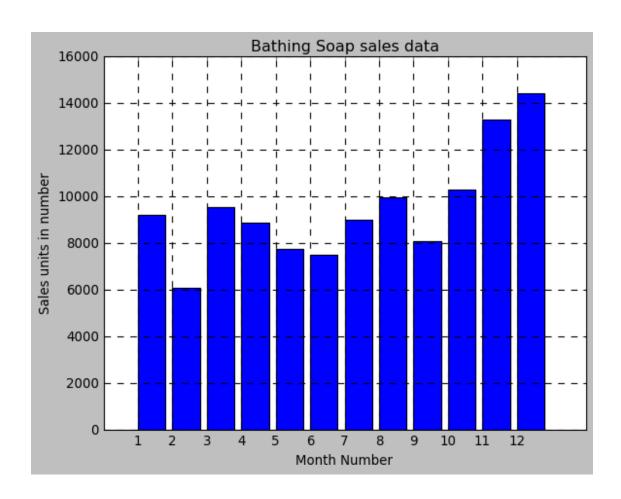


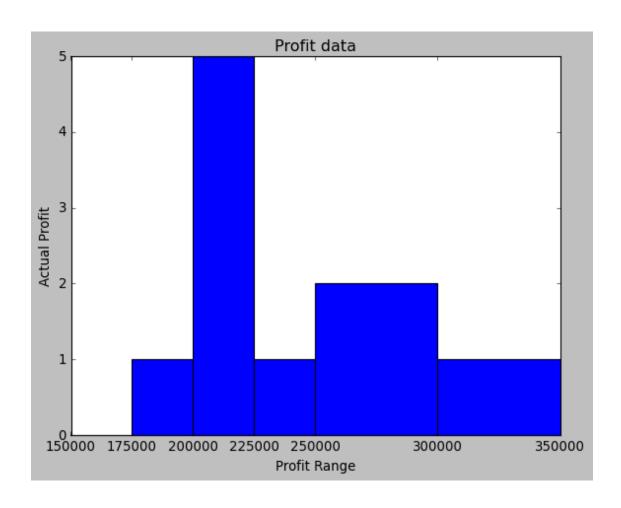
```
[42]: plt.scatter(sales['month_number'], sales['toothpaste'])
  plt.grid(linestyle='--')
  plt.title("Toothpaste Sales data")
  plt.xlabel('Month Number')
  plt.ylabel('Sold units number')
  plt.legend(['toothpaste'],loc='upper right', fontsize='large')
```

[42]: <matplotlib.legend.Legend at 0x7e0fb515fc90>

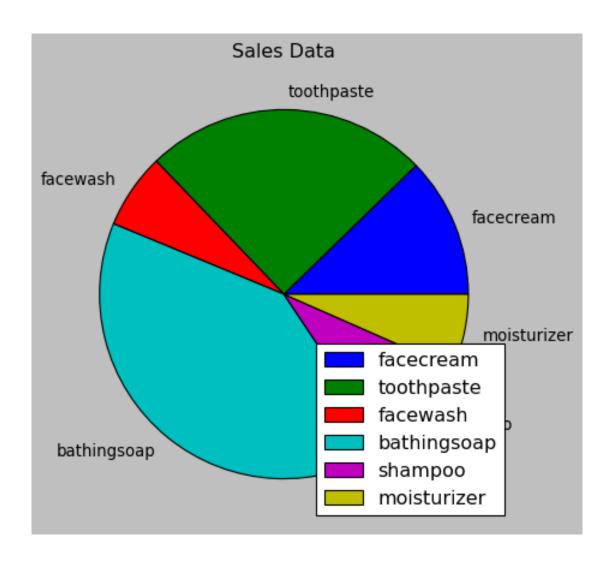








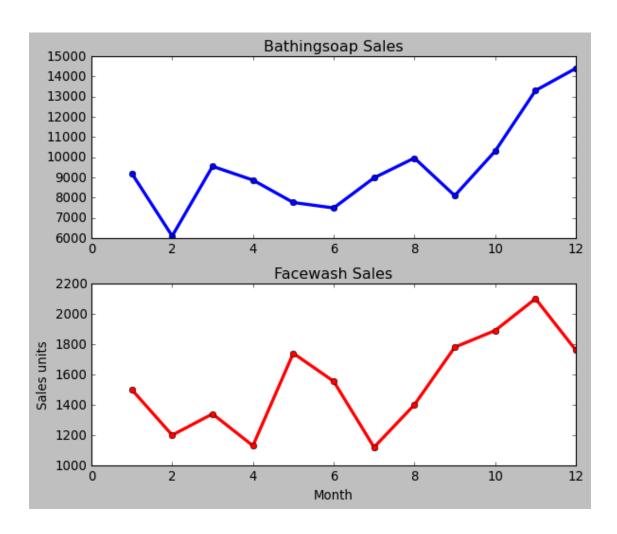
[32]: Text(0.5, 1.0, 'Sales Data')



```
fig = plt.figure()

ax1 = fig.add_axes([0.1, 0.6, 0.8, 0.4])
ax1.plot(sales['month_number'], sales['bathingsoap'], marker="o", linewidth=3)
ax1.set_title('Bathingsoap Sales')
ax2 = fig.add_axes([0.1, 0.1, 0.8, 0.4])
ax2.plot(sales['month_number'], sales['facewash'], color='red', marker="o", uplinewidth=3)
ax2.set_title('Facewash Sales')
ax2.set_ylabel('Sales units')
plt.xlabel('Month')
```

[55]: Text(0.5, 0, 'Month')



[60]: Text(0.5, 1.0, 'Product Sales Stack Plot')

