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20181CSE0621
7 - CSE - 10
DV Batch - 1



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In [10]: 1 import pandas as pd
          2 import numpy as np
          3 import matplotlib.pyplot as plt
          4 %matplotlib inline
          5 import seaborn as sns
          6 import warnings; warnings.simplefilter('ignore')
          7 plt.style.use(['dark_background', 'seaborn-pastel', 'ggplot' ])
```

```
In [5]: 1 df = pd.read_csv(r'company_sales_data.csv')
          2 df.head(3)
```

```
Out[5]:
```

	month_number	facecream	facewash	toothpaste	bathingsoap	shampoo	moisturizer	total_units	total_profit
0	1	2500	1500	5200	9200	1200	1500	21100	211000
1	2	2630	1200	5100	6100	2100	1200	18330	183300
2	3	2140	1340	4550	9550	3550	1340	22470	224700

In [23]:

```
1 months = list(df['month_number'])
2 facecream = df ['facecream'].tolist()
3 facewash = df ['facewash'].tolist()
4 tpaste = df ['toothpaste'].tolist()
5 soap = df ['bathingsoap'].tolist()
6 shampoo = df ['shampoo'].tolist()
7 moist = df ['moisturizer'].tolist()
8 c = ['cornflowerblue','hotpink','orchid','darkorange','plum','cyan']
9 with plt.style.context('dark_background'):
10     plt.figure(figsize=(10,8))
11     plt.plot([],[],color='cornflowerblue', label='face Cream', linewidth=5)
12     plt.plot([],[],color='hotpink', label='Face wash', linewidth=5)
13     plt.plot([],[],color='orchid', label='Tooth paste', linewidth=5)
14     plt.plot([],[],color='darkorange', label='Bathing soap', linewidth=5)
15     plt.plot([],[],color='plum', label='Shampoo', linewidth=5)
16     plt.plot([],[],color='cyan', label='Moisturizer', linewidth=5)
17     plt.stackplot(months, facecream, facewash, tpaste, soap, shampoo, moist, colors=c)
18     plt.xlabel('Month Number',size=20)
19     plt.ylabel('Quantity of Sales',size=20)
20     plt.grid(False)
21     plt.title('Sales Data of Products',size=30,pad=20)
22     plt.legend(loc='upper left')
23     plt.show()
```

Sales Data of Products

