```
In [1]: import pandas as pd
        import matplotlib.pyplot as plt
```

```
In [2]: monthly_sales = pd.read_csv('monthly_sales.csv')
        monthly_sales.head()
```

Out[2]:

	Unnamed: 0	Unnamed: 0.1	Month, Year	HM-NE	CF-NE	FF-NE	HM-SW	CF-SW	FF-SW	HM-NW	...	FF-NW	
0	0	0	Jan-16	1140955	494802	285238	1124565	468568	281141	1111618	...	277904	1(
1	1	1	Feb-16	1175529	489804	293882	1200559	480616	288369	1188037	...	297009	1
2	2	2	Mar-16	1235995	494802	296881	1220454	508522	293148	1151657	...	287914	1
3	3	3	Apr-16	1186592	514593	296648	1213616	485843	291505	1149180	...	299021	1
4	4	4	May-16	1272450	530187	305637	1249686	520702	312421	1187579	...	296894	1:

5 rows × 21 columns

```
In [3]: ham1 = list(monthly_sales['HM-NE'])
        ham2 = list(monthly_sales['HM-SW'])
        ham3 = list(monthly_sales['HM-NW'])
        ham4 = list(monthly_sales['HM-SE'])
        ham5 = list(monthly_sales['HM-C'])
        all_ham = [sum(x) for x in zip(ham1, ham2,ham3,ham4,ham5)]
        monthly_sales['Hamburger'] = all_ham
```

```
In [4]: ham1 = list(monthly_sales['CF-NE'])
        ham2 = list(monthly_sales['CF-SW'])
        ham3 = list(monthly_sales['CF-NW'])
        ham4 = list(monthly_sales['CF-SE'])
        ham5 = list(monthly_sales['CF-C'])
        all_chicken = [sum(x) for x in zip(ham1, ham2,ham3,ham4,ham5)]
        monthly_sales['Chicken Fillet'] = all_chicken
```

```
In [5]: ham1 = list(monthly_sales['FF-NE'])
        ham2 = list(monthly_sales['FF-SW'])
        ham3 = list(monthly_sales['FF-NW'])
        ham4 = list(monthly_sales['FF-SE'])
        ham5 = list(monthly_sales['FF-C'])
        all_fish = [sum(x) for x in zip(ham1, ham2,ham3,ham4,ham5)]
        monthly_sales['Fish Fillet'] = all_fish
        monthly_sales.head()
```

Out[5]:

	Unnamed: 0	Unnamed: 0.1	Month, Year	HM-NE	CF-NE	FF-NE	HM-SW	CF-SW	FF-SW	HM-NW	...	FF-NW	
0	0	0	Jan-16	1140955	494802	285238	1124565	468568	281141	1111618	...	277904	1(
1	1	1	Feb-16	1175529	489804	293882	1200559	480616	288369	1188037	...	297009	1
2	2	2	Mar-16	1235995	494802	296881	1220454	508522	293148	1151657	...	287914	1
3	3	3	Apr-16	1186592	514593	296648	1213616	485843	291505	1149180	...	299021	1
4	4	4	May-16	1272450	530187	305637	1249686	520702	312421	1187579	...	296894	1:

5 rows × 21 columns

In [6]: `#monthly_sales.to_csv('monthly_sales.csv')`

In [7]:
```python
dailydf = pd.read_csv('daily_sales.csv')
dailydf.head()
```

Out[7]:

	Unnamed: 0	Day	HM-NE	CF-NE	FF-NE	HM-SW	CF-SW	FF-SW	HM-NW	CF-NW	FF-NW	HM-SE	CF-SE	FF-SE
0	Friday	1/1/2016	37240	16077	8446	39249	16565	10204	37271	16819	9924	35967	13955	11734
1	Saturday	1/2/2016	36258	14726	7950	38106	14003	7316	35021	14705	9028	36398	15089	8005
2	Sunday	1/3/2016	37007	15103	8397	35494	15987	8683	35369	16591	8105	34864	13919	7011
3	Monday	1/4/2016	37590	16413	9537	33666	15114	8429	37993	14535	8034	36601	14528	8201
4	Tuesday	1/5/2016	38036	16199	10123	33528	13721	10085	37854	14590	9879	36661	15132	8874

In [8]:
```python
days = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"]
daydf = dailydf.groupby('Unnamed: 0').sum().reindex(["Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"]).reset_index()
display(daydf)
#x = daydf.set_index('Unnamed: 0').filter(like='FF').plot(kind = 'bar', xticks=daydf.index, rot=90)
```

	Unnamed: 0	HM-NE	CF-NE	FF-NE	HM-SW	CF-SW	FF-SW	HM-NW	CF-NW	FF-NW	HM-SE	CF-SE	FF-SE	H
0	Monday	147407	65644	37137	139664	64460	36965	149051	61370	34599	140641	57166	34851	148
1	Tuesday	148537	64111	38306	142676	59035	35566	144634	61986	35151	139362	60310	33610	146
2	Wednesday	146687	65775	38055	145780	60808	38014	145575	61724	37315	142659	59258	35470	144
3	Thursday	146544	65878	47190	143854	57932	37563	141652	65002	37095	140531	58316	35209	145
4	Friday	182391	78508	38171	189142	78918	54105	180608	77114	52028	177534	73476	58847	179
5	Saturday	181806	74971	37001	179746	70875	39964	176661	75882	42683	180867	73679	39157	182
6	Sunday	187583	79915	49378	183703	76540	38964	173437	79001	39033	173440	74059	36614	179

In [58]: `#daydf.set_index('Unnamed: 0').filter(like='FF').to_csv('days.csv')`

In [ ]: