In [2]:
```
import pandas as pd
df=pd.read_csv('train_data.csv')  #read the csv file into pandas frame
```

In [3]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

In [4]:
```
df["DateID"] = pd.to_datetime(df["DateID"], format = "%m/%d/%Y")
```

In [5]:
```
df['DateID'] = df['DateID'].dt.strftime('%d-%m-%Y')
```

In [6]:
```
df
```

Out[6]:

	CategoryCode	ItemCode	DateID	DailySales
0	category_2	117610	06-11-2021	7
1	category_4	836584	18-11-2021	16
2	category_1	370195	24-01-2022	6
3	category_2	172582	30-10-2021	5
4	category_2	1006009	30-10-2021	5
...	...	...	...	...
19916	category_2	225259	04-10-2021	4
19917	category_2	111436	12-10-2021	1
19918	category_2	1098502	01-10-2021	1
19919	category_2	20824	01-10-2021	7
19920	category_1	371104	04-10-2021	4

19921 rows × 4 columns

In [7]:
```
df.columns
```

Out[7]:
```
Index(['CategoryCode', 'ItemCode', 'DateID', 'DailySales'], dtype='object')
```

In [8]:
```
corr_matrix = df.corr().round(2)
corr_matrix
```

Out[8]:

	ItemCode	DailySales
ItemCode	1.00	-0.13
DailySales	-0.13	1.00

In [9]:

```
import datetime
df['Date'] = pd.to_datetime(df['DateID'])
df['Date'] = df['Date'].dt.strftime('%d.%m.%Y')
df['year'] = pd.DatetimeIndex(df['Date']).year
df['month'] = pd.DatetimeIndex(df['Date']).month
df['day'] = pd.DatetimeIndex(df['Date']).day
df['week'] = pd.DatetimeIndex(df['Date']).week
#df['week'] = pd.DatetimeIndex(df['Date'].isocalendar().week)
df['dayofyear'] = pd.DatetimeIndex(df['Date']).dayofyear
df['weekday'] = pd.DatetimeIndex(df['Date']).weekday
df['quarter'] = pd.DatetimeIndex(df['Date']).quarter
df['is_month_start'] = pd.DatetimeIndex(df['Date']).is_month_start
df['is_month_end'] = pd.DatetimeIndex(df['Date']).is_month_end
print(df.info())
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 19921 entries, 0 to 19920
Data columns (total 14 columns):
 #   Column          Non-Null Count  Dtype 
---  ------          --------------  ----- 
 0   CategoryCode    19921 non-null  object
 1   ItemCode        19921 non-null  int64 
 2   DateID          19921 non-null  object
 3   DailySales      19921 non-null  int64 
 4   Date            19921 non-null  object
 5   year            19921 non-null  int64 
 6   month           19921 non-null  int64 
 7   day             19921 non-null  int64 
 8   week            19921 non-null  int64 
 9   dayofyear       19921 non-null  int64 
 10  weekday         19921 non-null  int64 
 11  quarter         19921 non-null  int64 
 12  is_month_start  19921 non-null  bool  
 13  is_month_end    19921 non-null  bool  
dtypes: bool(2), int64(9), object(3)
memory usage: 1.9+ MB
None
C:\Users\mailt\AppData\Local\Temp/ipykernel_15620/1127780983.py:7: FutureWarning: weekofyear and week have been deprecated, please use DatetimeIndex.isocalendar().week instead, which returns a Series.  To exactly reproduce the behavior of week and weekofyear and return an Index, you may call pd.Int64Index(idx.isocalendar().week)
  df['week'] = pd.DatetimeIndex(df['Date']).week
```

In [10]:

```
df
```

Out[10]:

	CategoryCode	ItemCode	DateID	DailySales	Date	year	month	day	week	dayofyear
0	category_2	117610	06-11-2021	7	11.06.2021	2021	11	6	44	310
1	category_4	836584	18-11-2021	16	18.11.2021	2021	11	18	46	322
2	category_1	370195	24-01-2022	6	24.01.2022	2022	1	24	4	24
3	category_2	172582	30-10-2021	5	30.10.2021	2021	10	30	43	303

	CategoryCode	ItemCode	DateID	DailySales	Date	year	month	day	week	dayofyear
4	category_2	1006009	30-10-2021	5	30.10.2021	2021	10	30	43	303
...	...	...	...	...	...	...	...	...	...	...
19916	category_2	225259	04-10-2021	4	10.04.2021	2021	10	4	40	277
19917	category_2	111436	12-10-2021	1	10.12.2021	2021	10	12	41	285
19918	category_2	1098502	01-10-2021	1	10.01.2021	2021	10	1	39	274
19919	category_2	20824	01-10-2021	7	10.01.2021	2021	10	1	39	274
19920	category_1	371104	04-10-2021	4	10.04.2021	2021	10	4	40	277

19921 rows × 14 columns

Analyze the relationship between features using a correlation matrix

In [11]:
```
corr_matrix = df.corr().round(2)
corr_matrix
```

Out[11]:

	ItemCode	DailySales	year	month	day	week	dayofyear	weekday	quarter	is_mont
ItemCode	1.00	-0.13	-0.01	0.01	0.01	0.01	0.01	0.01	0.01	
DailySales	-0.13	1.00	0.01	-0.00	0.00	-0.01	-0.00	-0.00	-0.01	
year	-0.01	0.01	1.00	-0.99	-0.13	-0.94	-0.99	0.02	-1.00	
month	0.01	-0.00	-0.99	1.00	0.12	0.95	1.00	-0.03	0.99	
day	0.01	0.00	-0.13	0.12	1.00	0.12	0.18	0.02	0.13	
week	0.01	-0.01	-0.94	0.95	0.12	1.00	0.95	0.01	0.94	
dayofyear	0.01	-0.00	-0.99	1.00	0.18	0.95	1.00	-0.02	0.99	
weekday	0.01	-0.00	0.02	-0.03	0.02	0.01	-0.02	1.00	-0.02	
quarter	0.01	-0.01	-1.00	0.99	0.13	0.94	0.99	-0.02	1.00	
is_month_start	0.00	0.00	0.04	-0.04	-0.31	0.04	-0.05	-0.07	-0.04	
is_month_end	0.01	0.01	-0.03	0.03	0.31	0.04	0.05	-0.03	0.03	

Starting the week count from the first week given in the dataset

In [12]:
```
```

```
df['week'].mask(df['week'] < 38, (df['week']+14), inplace=True)
```

In [13]:
```
df['week'].mask(df['week'] > 38, (df['week']-38), inplace=True)
```

In [14]:
```
df.head(50)
```

Out[14]:

	CategoryCode	ItemCode	DateID	DailySales	Date	year	month	day	week	dayofyear	wee
0	category_2	117610	06-11-2021	7	11.06.2021	2021	11	6	6	310	
1	category_4	836584	18-11-2021	16	18.11.2021	2021	11	18	8	322	
2	category_1	370195	24-01-2022	6	24.01.2022	2022	1	24	18	24	
3	category_2	172582	30-10-2021	5	30.10.2021	2021	10	30	5	303	
4	category_2	1006009	30-10-2021	5	30.10.2021	2021	10	30	5	303	
5	category_2	903976	06-01-2022	1	01.06.2022	2022	1	6	15	6	
6	category_1	145978	30-10-2021	3	30.10.2021	2021	10	30	5	303	
7	category_1	1061341	24-01-2022	5	24.01.2022	2022	1	24	18	24	
8	category_1	371239	05-01-2022	1	01.05.2022	2022	1	5	15	5	
9	category_2	865933	08-02-2022	3	02.08.2022	2022	2	8	20	39	
10	category_3	1081087	04-01-2022	1	01.04.2022	2022	1	4	15	4	
11	category_1	1061341	07-12-2021	8	12.07.2021	2021	12	7	11	341	
12	category_1	1032550	30-10-2021	1	30.10.2021	2021	10	30	5	303	
13	category_2	1090249	23-10-2021	3	23.10.2021	2021	10	23	4	296	
14	category_3	169504	05-01-2022	120	01.05.2022	2022	1	5	15	5	
15	category_2	1067092	06-11-2021	8	11.06.2021	2021	11	6	6	310	
16	category_1	1054978	08-02-2022	7	02.08.2022	2022	2	8	20	39	
17	category_1	1050046	30-10-2021	3	30.10.2021	2021	10	30	5	303	

	CategoryCode	ItemCode	DateID	DailySales	Date	year	month	day	week	dayofyear	wee
18	category_1	1044610	07-12-2021	2	12.07.2021	2021	12	7	11	341	
19	category_2	138742	08-02-2022	9	02.08.2022	2022	2	8	20	39	
20	category_2	815101	06-11-2021	4	11.06.2021	2021	11	6	6	310	
21	category_1	59047	07-12-2021	2	12.07.2021	2021	12	7	11	341	
22	category_2	39436	12-11-2021	2	11.12.2021	2021	11	12	7	316	
23	category_1	379249	24-01-2022	13	24.01.2022	2022	1	24	18	24	
24	category_1	1048975	06-01-2022	2	01.06.2022	2022	1	6	15	6	
25	category_2	213802	06-01-2022	1	01.06.2022	2022	1	6	15	6	
26	category_2	877624	04-01-2022	2	01.04.2022	2022	1	4	15	4	
27	category_1	371239	18-11-2021	4	18.11.2021	2021	11	18	8	322	
28	category_4	1060909	07-12-2021	39	12.07.2021	2021	12	7	11	341	
29	category_2	1103056	17-11-2021	3	17.11.2021	2021	11	17	8	321	
30	category_2	836125	17-11-2021	13	17.11.2021	2021	11	17	8	321	
31	category_4	1060909	05-01-2022	11	01.05.2022	2022	1	5	15	5	
32	category_1	43657	05-01-2022	1	01.05.2022	2022	1	5	15	5	
33	category_3	131983	17-11-2021	8	17.11.2021	2021	11	17	8	321	
34	category_2	1098493	23-10-2021	2	23.10.2021	2021	10	23	4	296	
35	category_1	76399	17-11-2021	16	17.11.2021	2021	11	17	8	321	
36	category_1	1032559	04-01-2022	5	01.04.2022	2022	1	4	15	4	
37	category_1	38518	06-01-2022	3	01.06.2022	2022	1	6	15	6	
38	category_2	1010068	09-12-2021	18	12.09.2021	2021	12	9	11	343	

	CategoryCode	ItemCode	DateID	DailySales	Date	year	month	day	week	dayofyear	wee
39	category_2	1076938	24-01-2022	7	24.01.2022	2022	1	24	18	24	
40	category_1	1044691	09-02-2022	2	02.09.2022	2022	2	9	20	40	
41	category_2	64978	09-02-2022	1	02.09.2022	2022	2	9	20	40	
42	category_4	1060909	23-10-2021	16	23.10.2021	2021	10	23	4	296	
43	category_2	172033	06-11-2021	28	11.06.2021	2021	11	6	6	310	
44	category_3	1090024	30-10-2021	3	30.10.2021	2021	10	30	5	303	
45	category_3	169504	04-01-2022	109	01.04.2022	2022	1	4	15	4	
46	category_2	1067074	06-11-2021	4	11.06.2021	2021	11	6	6	310	
47	category_1	1021264	07-12-2021	1	12.07.2021	2021	12	7	11	341	
48	category_1	76399	09-12-2021	4	12.09.2021	2021	12	9	11	343	
49	category_2	1071106	06-11-2021	1	11.06.2021	2021	11	6	6	310	

In [15]:
```
df
```

Out[15]:

	CategoryCode	ItemCode	DateID	DailySales	Date	year	month	day	week	dayofyear
0	category_2	117610	06-11-2021	7	11.06.2021	2021	11	6	6	310
1	category_4	836584	18-11-2021	16	18.11.2021	2021	11	18	8	322
2	category_1	370195	24-01-2022	6	24.01.2022	2022	1	24	18	24
3	category_2	172582	30-10-2021	5	30.10.2021	2021	10	30	5	303
4	category_2	1006009	30-10-2021	5	30.10.2021	2021	10	30	5	303
...	...	...	...	...	...	...	...	...	...	...
19916	category_2	225259	04-10-2021	4	10.04.2021	2021	10	4	2	277
19917	category_2	111436	12-10-2021	1	10.12.2021	2021	10	12	3	285

	CategoryCode	ItemCode	DateID	DailySales	Date	year	month	day	week	dayofyear
19918	category_2	1098502	01-10-2021	1	10.01.2021	2021	10	1	1	274
19919	category_2	20824	01-10-2021	7	10.01.2021	2021	10	1	1	274
19920	category_1	371104	04-10-2021	4	10.04.2021	2021	10	4	2	277

19921 rows × 14 columns

getting only the useful features form the dataframe

In [16]:
```
df_new=df[['CategoryCode', 'ItemCode','week','DailySales']]
```

In [17]:
```
df_new
```

Out[17]:

	CategoryCode	ItemCode	week	DailySales
0	category_2	117610	6	7
1	category_4	836584	8	16
2	category_1	370195	18	6
3	category_2	172582	5	5
4	category_2	1006009	5	5
...	...	...	...	...
19916	category_2	225259	2	4
19917	category_2	111436	3	1
19918	category_2	1098502	1	1
19919	category_2	20824	1	7
19920	category_1	371104	2	4

19921 rows × 4 columns

In [18]:
```
dt=df_new.groupby(['CategoryCode','ItemCode','week']).agg({'DailySales':['sum']})
```

In [19]:
```
dt.head(20)
```

Out[19]:

			DailySales
			sum
CategoryCode	**ItemCode**	**week**	

			DailySales
			sum
CategoryCode	ItemCode	week	
category_1	3418	1	29
		2	42
		3	41
		4	41
		5	44
		6	46
		7	43
		8	49
		9	54
		10	69
		11	101
		12	73
		13	75
		14	56
		15	83
		16	85
		17	89
		18	67
		19	109
		20	72

In [20]:
```
dt.columns=['WeeklySales']
```

In [21]:
```
dt=dt.reset_index()
```

In [22]:
```
dt.head(50)
```

Out[22]:

	CategoryCode	ItemCode	week	WeeklySales
0	category_1	3418	1	29
1	category_1	3418	2	42
2	category_1	3418	3	41
3	category_1	3418	4	41

	CategoryCode	ItemCode	week	WeeklySales
4	category_1	3418	5	44
5	category_1	3418	6	46
6	category_1	3418	7	43
7	category_1	3418	8	49
8	category_1	3418	9	54
9	category_1	3418	10	69
10	category_1	3418	11	101
11	category_1	3418	12	73
12	category_1	3418	13	75
13	category_1	3418	14	56
14	category_1	3418	15	83
15	category_1	3418	16	85
16	category_1	3418	17	89
17	category_1	3418	18	67
18	category_1	3418	19	109
19	category_1	3418	20	72
20	category_1	3427	1	11
21	category_1	3427	2	40
22	category_1	3427	3	20
23	category_1	3427	4	48
24	category_1	3427	5	54
25	category_1	3427	6	28
26	category_1	3427	7	36
27	category_1	3427	8	52
28	category_1	3427	9	42
29	category_1	3427	10	57
30	category_1	3427	11	46
31	category_1	3427	12	45
32	category_1	3427	13	78
33	category_1	3427	14	39
34	category_1	3427	15	66
35	category_1	3427	16	32
36	category_1	3427	17	34

	CategoryCode	ItemCode	week	WeeklySales
37	category_1	3427	18	29
38	category_1	3427	19	58
39	category_1	3427	20	35
40	category_1	17287	1	2
41	category_1	17287	2	16
42	category_1	17287	3	6
43	category_1	17287	4	10
44	category_1	17287	5	21
45	category_1	17287	6	21
46	category_1	17287	7	12
47	category_1	17287	8	20
48	category_1	17287	9	10
49	category_1	17287	10	24

In [ ]:

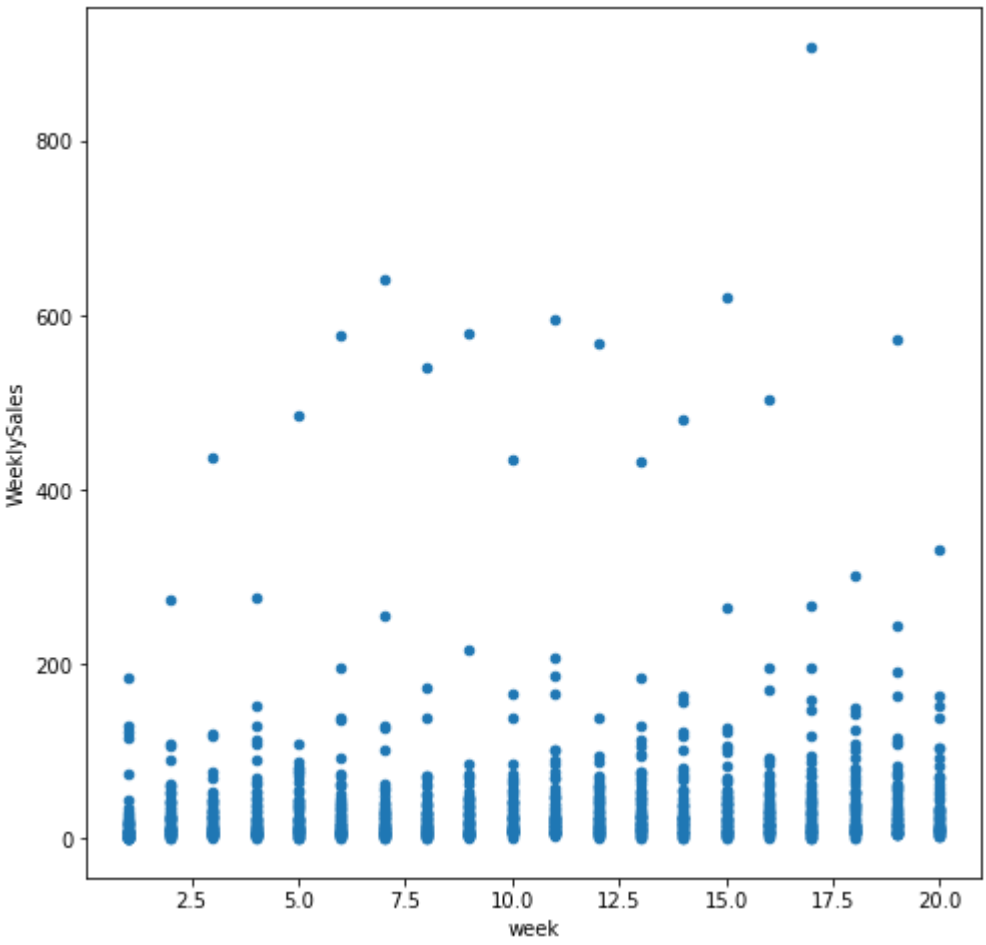
In [23]:
```
dt_category1=dt[dt['CategoryCode']=='category_1']
```

In [24]:
```
dt_category2=dt[dt['CategoryCode']=='category_2']
```

In [25]:
```
dt_category3=dt[dt['CategoryCode']=='category_3']
```

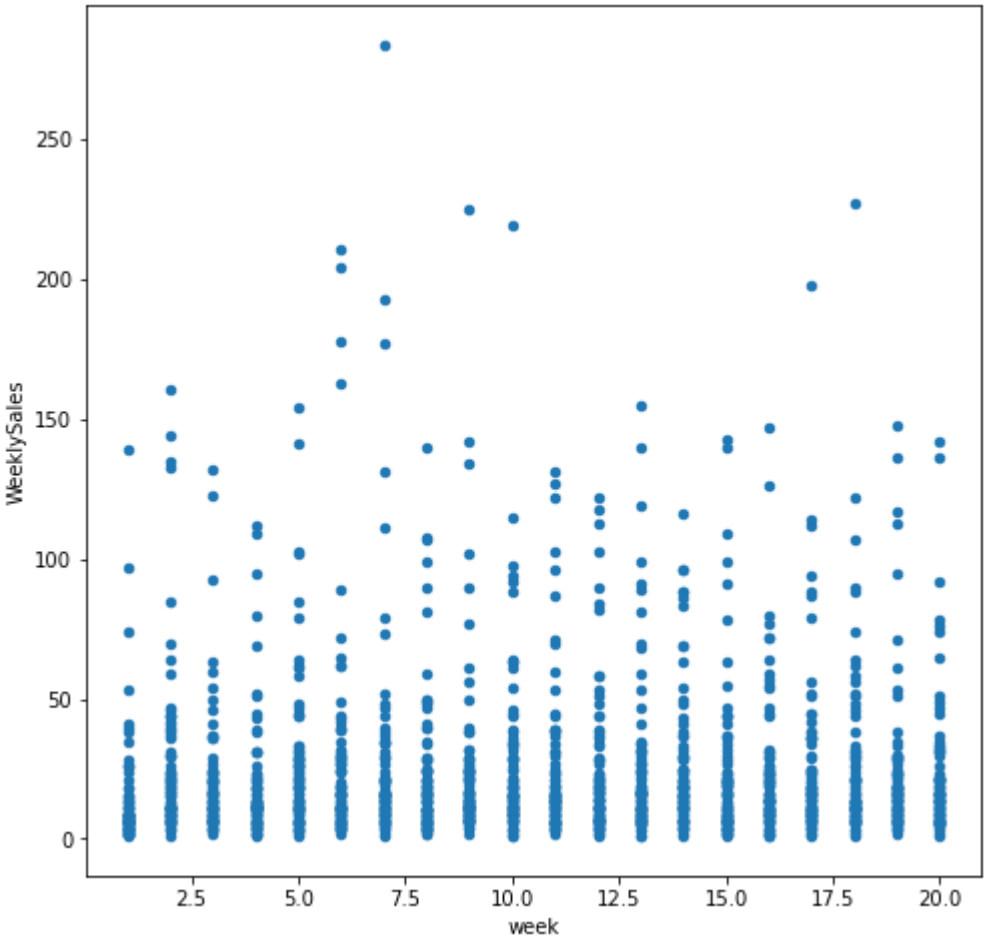
In [26]:
```
dt_category4=dt[dt['CategoryCode']=='category_4']
```

In [27]:
```
dt_category1.plot(kind = 'scatter',
           x = 'week',
           y = 'WeeklySales',
           figsize=(8,8))
plt.savefig('Week vs WeeklySales in Category 1.png')
plt.show()
```



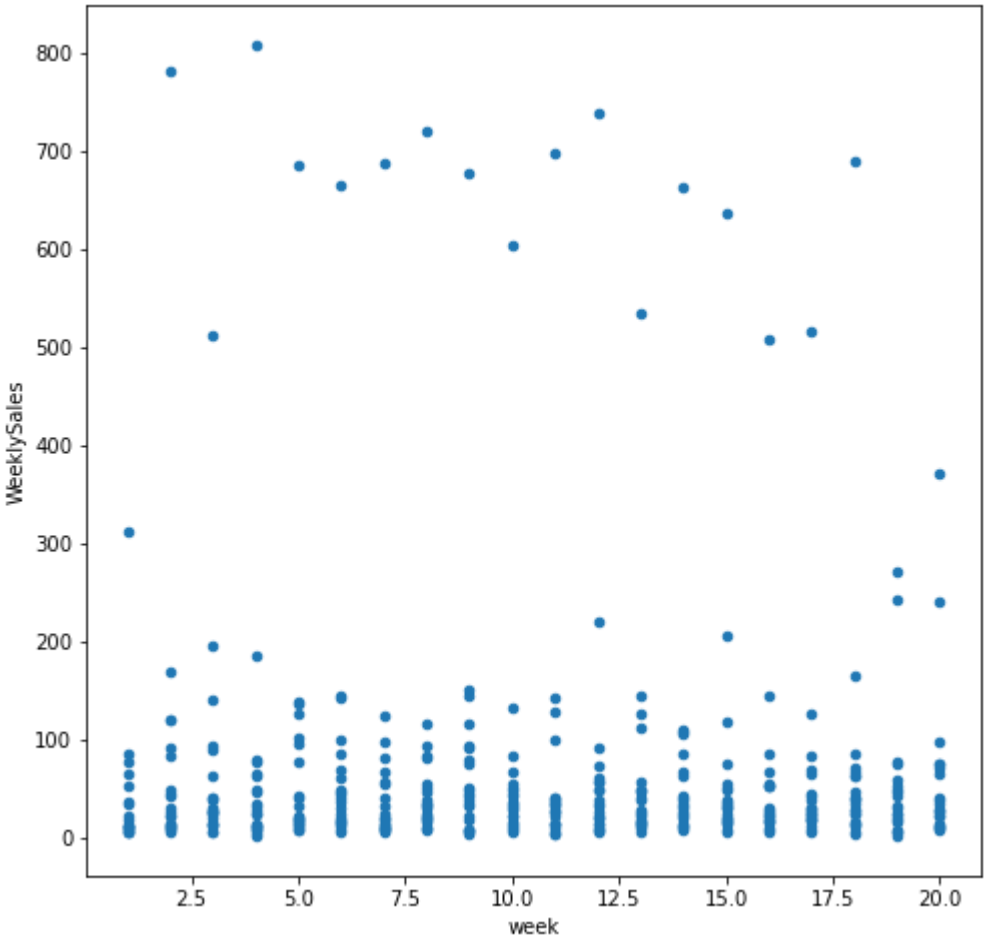
In [28]:

```
dt_category2.plot(kind = 'scatter',
            x = 'week',
            y = 'WeeklySales',
            figsize=(8,8))
plt.savefig('Week vs WeeklySales in Category 2.png')
plt.show()
```



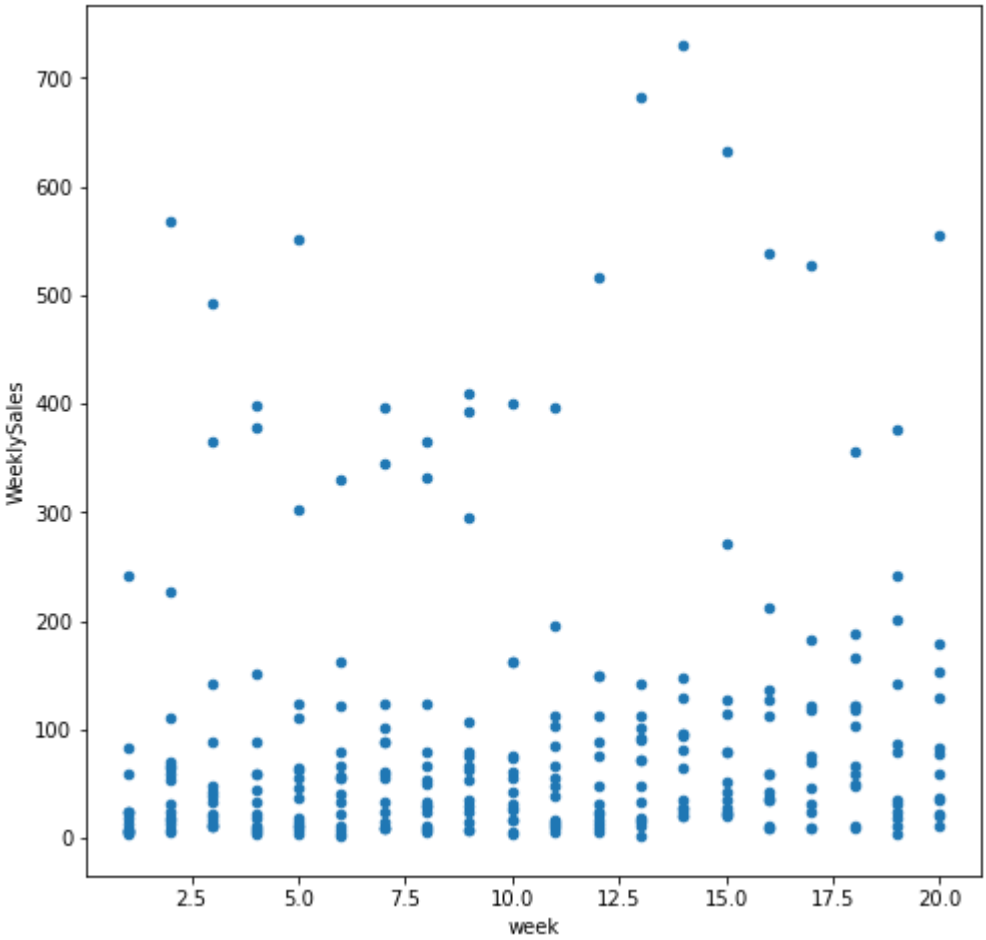
In [29]:

```
dt_category3.plot(kind = 'scatter',
            x = 'week',
            y = 'WeeklySales',
            figsize=(8,8))
plt.savefig('Week vs WeeklySales in Category 3.png')
plt.show()
```



In [30]:

```
dt_category4.plot(kind = 'scatter',
            x = 'week',
            y = 'WeeklySales',
            figsize=(8,8))
plt.savefig('Week vs WeeklySales in Category 4.png')
plt.show()
```



In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [31]:
```
validation_data = pd.read_csv('validation_data.csv')  #read the csv file into pandas fr
```

In [32]:
```
corr_matrix = dt.corr().round(2)
corr_matrix
```

Out[32]:

	ItemCode	week	WeeklySales
ItemCode	1.00	0.01	-0.16
week	0.01	1.00	0.04
WeeklySales	-0.16	0.04	1.00

In [33]:
```
id_list=dt['ItemCode'].unique() #get a list of unique item codes
```

In [34]:
```
id_list
```

Out[34]:
```
array([   3418,    3427,   17287,   17296,   24136,   35449,   35530,
         35584,   36898,   37510,   38518,   42424,   42496,   43657,
         43738,   48940,   59047,   76399,   86992,  119554,  124774,
        142756,  145330,  145978,  370195,  371104,  371239,  379249,
        416212,  755584,  839356,  839374, 1015621, 1021264, 1030948,
       1032532, 1032541, 1032550, 1032559, 1032568, 1032586, 1044610,
       1044619, 1044682, 1044691, 1047967, 1048975, 1049776, 1050046,
       1054978, 1056463, 1058713, 1061341, 1061638, 1067119, 1067128,
       1068883, 1075651, 1077118, 1081321, 1081339, 1084498, 1085749,
       1090105, 1090114, 1090294, 1090303,    9925,   20824,   23569,
         30877,   32245,   39436,   40759,   41830,   43630,   50785,
         57058,   59749,   64978,   65788,   75886,   86974,   87046,
         87559,   99079,  110320,  111382,  111436,  117610,  118033,
        124954,  130993,  132028,  138742,  172033,  172582,  173617,
        174436,  210868,  211309,  213802,  216151,  225259,  248272,
        262384,  267478,  267496,  399220,  687616,  745945,  815101,
        836125,  836152,  837943,  838456,  858886,  865933,  877624,
        903976,  906586,  906595,  913561,  999403, 1006009, 1006090,
       1006099, 1006108, 1010068, 1026871, 1044502, 1064473, 1067074,
       1067092, 1070818, 1070836, 1071106, 1071115, 1071124, 1076920,
       1076929, 1076938, 1090240, 1090249, 1090258, 1090276, 1092184,
       1098493, 1098502, 1101553, 1101562, 1101571, 1101769, 1103056,
       1105009, 1105018, 1105027,    7666,   16936,   37861,   88450,
        131983,  132334,  169504,  397213,  893824, 1013335, 1047130,
       1060630, 1063600, 1064572, 1066570, 1081060, 1081069, 1081078,
       1081087, 1090024, 1097143, 1101661,   23200,  123307,  245581,
        731104,  753613,  836584,  872260, 1003147, 1003156, 1003183,
       1003192, 1024810, 1060909, 1074823, 1082743], dtype=int64)
```

In [35]:
```
validation_data=pd.read_csv('validation_data.csv')  #read the csv file into pandas fram
```

In [36]:
```
id_list_validation=validation_data['ItemCode'].unique()
```

In [37]:
```
id_list_validation
```

Out[37]:
```
array([1044502, 1105009,  913561, 1048975,   17287,  371239, 1098502,
       1074823,   23569,  397213,  211309, 1058713, 1032550, 1071106,
         40759, 1067092, 1101661,  210868,  379249,   75886, 1044682,
       1090303, 1084498, 1064473, 1030948, 1090276,  138742,   24136,
        836125,   64978, 1032541,  865933,  836152,  839356,  906586,
         30877,  173617, 1006108, 1064572,  416212,   35584, 1070836,
         43657,  110320,    3427,  877624, 1090105,  248272,  124954,
       1097143, 1098493,  745945,   48940,   86974, 1076938,   59047,
        172582, 1044619, 1013335, 1015621, 1047130,  132028, 1010068,
       1066570, 1076920, 1071124,  172033,  399220,  142756, 1006009,
       1003156, 1090294,   99079, 1050046, 1026871,   59749,  118033,
          3418,  124774, 1003147,    7666,  245581, 1081087, 1061638,
         17296, 1090240,   76399,  131983,   50785,  755584,  267496,
         20824, 1060909, 1090114, 1032586], dtype=int64)
```

In [38]:
```
validation_data.rename(columns = {'Week':'week'}, inplace = True)
```

In [39]:
```
validation_data
```

Out[39]:

	CategoryCode	ItemCode	week	WeeklySales
0	category_2	1044502	w1	11
1	category_2	1105009	w1	11
2	category_2	913561	w4	5
3	category_1	1048975	w4	30
4	category_1	17287	w2	60
...	...	...	...	...
365	category_2	124954	w2	43
366	category_2	40759	w1	48
367	category_1	1090303	w1	19
368	category_2	1090276	w3	6
369	category_1	3418	w4	69

370 rows × 4 columns

In [40]:
```
validation_data['week'].replace({'w1':1,'w2':2,'w3':3,'w4':4},inplace=True)
```

In [41]:
```
validation_data['CategoryCode'].replace({'category_1':1,'category_2':2,'category_3':3,'
```

In [42]:
```
validation_data
```

Out[42]:

	CategoryCode	ItemCode	week	WeeklySales
0	2	1044502	1	11
1	2	1105009	1	11
2	2	913561	4	5
3	1	1048975	4	30
4	1	17287	2	60
...	...	...	...	...
365	2	124954	2	43
366	2	40759	1	48
367	1	1090303	1	19
368	2	1090276	3	6
369	1	3418	4	69

370 rows × 4 columns

Check the validation of the model

In [43]:
```
dt_val=dt.copy(deep=True)
```

In [44]:
```
dt_val['CategoryCode'].replace({'category_1':1,'category_2':2,'category_3':3,'category_
```

In [45]:
```
dt_val
```

Out[45]:

	CategoryCode	ItemCode	week	WeeklySales
0	1	3418	1	29
1	1	3418	2	42
2	1	3418	3	41
3	1	3418	4	41
4	1	3418	5	44
...	...	...	...	...
3767	4	1082743	15	24
3768	4	1082743	16	9
3769	4	1082743	17	75
3770	4	1082743	18	60
3771	4	1082743	20	83

3772 rows × 4 columns

In [46]:
```
errors=[]
all_y_test_predicted=[]
all_Y_test=[]
for id in id_list_validation:
    dt_item=dt_val[dt_val['ItemCode']==id]
    validation_data_item=validation_data[validation_data['ItemCode']==id]
    X_train= dt_item[['week','CategoryCode']]
    Y_train=dt_item['WeeklySales']
    X_test = validation_data_item[['week','CategoryCode']]
    Y_test = validation_data_item['WeeklySales']
    #from sklearn.ensemble import ExtraTreesRegressor
    from sklearn.linear_model import LinearRegression
    model=LinearRegression(normalize=True)
    #model =ExtraTreesRegressor()
    model.fit(X_train, Y_train)
    y_test_predicted = model.predict(X_test)
    all_y_test_predicted+=list(y_test_predicted.round(0))
    all_Y_test+=list(Y_test)
```

In [48]:
```
all_Y_test
```

Out[48]:
```
[11,
 13,
 48,
 11,
 11,
 10,
 19,
 10,
 5,
 9,
 5,
 4,
 30,
 28,
 25,
 60,
 60,
 64,
 57,
 83,
 18,
 18,
 11,
 9,
 7,
 4,
 7,
 6,
 23,
 72,
 53,
 84,
 2,
 20,
 60,
 20,
 4,
 3,
 6,
 20,
 18,
 23,
 15,
 13,
 65,
 85,
 67,
 70,
 16,
 7,
 22,
 14,
```

48,
84,
39,
25,
65,
63,
82,
48,
139,
138,
92,
118,
54,
69,
88,
64,
10,
10,
5,
4,
84,
98,
43,
87,
11,
17,
19,
5,
35,
50,
15,
40,
11,
14,
14,
19,
39,
29,
15,
46,
33,
27,
28,
28,
11,
10,
14,
12,
4,
3,
10,
6,
24,
25,
17,
27,
37,
44,
56,
20,

38,
42,
40,
37,
6,
16,
12,
11,
68,
98,
214,
50,
39,
31,
15,
68,
29,
36,
22,
52,
137,
64,
87,
116,
13,
7,
6,
10,
93,
118,
107,
65,
13,
22,
16,
23,
30,
13,
30,
11,
8,
13,
24,
9,
3,
8,
14,
19,
19,
26,
13,
15,
19,
21,
18,
21,
17,
23,
17,
11,

33,
21,
31,
38,
56,
33,
7,
72,
25,
59,
24,
38,
14,
11,
13,
5,
15,
18,
15,
20,
14,
33,
13,
43,
27,
32,
43,
47,
10,
9,
8,
9,
30,
11,
14,
10,
24,
39,
22,
44,
26,
32,
30,
23,
12,
17,
3,
1,
13,
7,
15,
8,
21,
20,
21,
23,
18,
51,
22,
7,

10,
6,
3,
20,
11,
12,
10,
68,
72,
63,
79,
120,
105,
112,
134,
18,
30,
19,
11,
42,
72,
39,
133,
6,
8,
4,
10,
20,
6,
25,
5,
10,
21,
35,
16,
22,
16,
20,
19,
53,
114,
15,
25,
5,
3,
1,
1,
62,
48,
36,
29,
11,
32,
12,
17,
19,
21,
28,
14,
8,

5,
29,
9,
3,
6,
10,
33,
219,
314,
178,
12,
11,
13,
9,
69,
25,
120,
69,
19,
51,
48,
1,
173,
36,
48,
17,
16,
161,
32,
232,
149,
36,
40,
48,
36,
40,
41,
728,
514,
366,
771,
13,
3,
8,
8,
14,
24,
32,
30,
47,
46,
47,
45,
67,
51,
62,
99,
60,
36,
6,

```
7,
8,
6,
220,
150,
137,
148,
66,
86,
21,
11,
11,
11,
3,
19,
24,
14,
38]
```

In [47]:
```
all_y_test_predicted
```

Out[47]:
```
[18.0,
 17.0,
 18.0,
 17.0,
 9.0,
 9.0,
 9.0,
 9.0,
 9.0,
 9.0,
 9.0,
 9.0,
 5.0,
 1.0,
 -1.0,
 3.0,
 9.0,
 11.0,
 7.0,
 10.0,
 11.0,
 11.0,
 10.0,
 12.0,
 6.0,
 6.0,
 6.0,
 6.0,
 308.0,
 261.0,
 292.0,
 277.0,
 19.0,
 19.0,
 19.0,
 19.0,
 13.0,
 12.0,
```

11.0,
13.0,
13.0,
13.0,
12.0,
12.0,
31.0,
32.0,
29.0,
28.0,
22.0,
22.0,
22.0,
20.0,
21.0,
25.0,
25.0,
25.0,
26.0,
57.0,
56.0,
57.0,
56.0,
112.0,
113.0,
114.0,
111.0,
21.0,
20.0,
23.0,
18.0,
8.0,
7.0,
7.0,
7.0,
22.0,
26.0,
32.0,
29.0,
9.0,
9.0,
8.0,
8.0,
38.0,
38.0,
37.0,
39.0,
5.0,
6.0,
6.0,
5.0,
24.0,
25.0,
24.0,
24.0,
37.0,
36.0,
37.0,
37.0,
6.0,
6.0,

6.0,
6.0,
13.0,
13.0,
12.0,
13.0,
23.0,
23.0,
23.0,
23.0,
38.0,
37.0,
39.0,
40.0,
25.0,
28.0,
27.0,
24.0,
5.0,
5.0,
5.0,
5.0,
73.0,
83.0,
78.0,
88.0,
33.0,
31.0,
32.0,
30.0,
17.0,
17.0,
17.0,
16.0,
19.0,
25.0,
22.0,
29.0,
6.0,
7.0,
7.0,
6.0,
55.0,
59.0,
57.0,
54.0,
20.0,
20.0,
19.0,
19.0,
3.0,
8.0,
5.0,
6.0,
10.0,
10.0,
10.0,
10.0,
5.0,
5.0,

6.0,
6.0,
4.0,
5.0,
4.0,
4.0,
20.0,
21.0,
21.0,
20.0,
6.0,
6.0,
5.0,
5.0,
38.0,
36.0,
37.0,
37.0,
36.0,
38.0,
36.0,
37.0,
25.0,
26.0,
25.0,
25.0,
5.0,
5.0,
5.0,
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21.0,
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21.0,
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21.0,
20.0,
18.0,
14.0,
7.0,
11.0,
7.0,
7.0,
7.0,
8.0,
20.0,
20.0,
20.0,
19.0,
11.0,
10.0,
9.0,
9.0,
10.0,
9.0,
12.0,
13.0,
4.0,
6.0,

1.0,
3.0,
7.0,
6.0,
7.0,
6.0,
18.0,
18.0,
18.0,
18.0,
33.0,
34.0,
35.0,
8.0,
8.0,
7.0,
8.0,
3.0,
2.0,
2.0,
1.0,
45.0,
42.0,
46.0,
44.0,
144.0,
142.0,
141.0,
143.0,
20.0,
19.0,
19.0,
20.0,
93.0,
89.0,
101.0,
97.0,
11.0,
12.0,
12.0,
12.0,
15.0,
15.0,
15.0,
16.0,
74.0,
67.0,
64.0,
71.0,
21.0,
22.0,
19.0,
23.0,
24.0,
27.0,
26.0,
29.0,
11.0,
12.0,
13.0,

13.0,
49.0,
54.0,
45.0,
8.0,
8.0,
8.0,
8.0,
17.0,
17.0,
18.0,
18.0,
20.0,
17.0,
18.0,
19.0,
12.0,
12.0,
12.0,
12.0,
40.0,
43.0,
42.0,
41.0,
11.0,
10.0,
10.0,
11.0,
37.0,
34.0,
40.0,
44.0,
22.0,
22.0,
22.0,
22.0,
55.0,
48.0,
124.0,
112.0,
120.0,
46.0,
61.0,
56.0,
51.0,
26.0,
26.0,
26.0,
26.0,
69.0,
67.0,
403.0,
392.0,
381.0,
414.0,
27.0,
25.0,
28.0,
26.0,
20.0,

```
18.0,
33.0,
33.0,
33.0,
33.0,
10.0,
12.0,
11.0,
9.0,
24.0,
26.0,
28.0,
22.0,
9.0,
10.0,
9.0,
10.0,
130.0,
130.0,
131.0,
130.0,
38.0,
42.0,
49.0,
4.0,
4.0,
4.0,
3.0,
14.0,
15.0,
15.0,
16.0]
```

In [49]:
```
from sklearn.metrics import mean_absolute_error as mape
error_for_linear_regression_model = mape(all_Y_test,all_y_test_predicted).round(2)
```

In [50]:
```
error_for_linear_regression_model*100
```

Out[50]:
```
2352.0
```

In [ ]:
```

```

Train the model using Linear Regression Algorithm and test the given data and get the predictions

In [51]:
```
final={}
for id in id_list:
    dt_item=dt[dt['ItemCode']==id]
    X_train= dt_item[['week']]
    Y_train=dt_item['WeeklySales']
    X_test=[[21],[22],[23],[24]]
    from sklearn.linear_model import LinearRegression
    model =LinearRegression(normalize=True)
    model.fit(X_train, Y_train)
```

```
    y_test_predicted = model.predict(X_test)
    result=y_test_predicted.round(0)
    final[id]=result
```

In [52]:

```
final
```

Out[52]:

```
{3418: array([ 95.,  99., 102., 105.]),
 3427: array([50., 51., 52., 52.]),
 17287: array([33., 35., 36., 37.]),
 17296: array([598., 609., 620., 631.]),
 24136: array([23., 23., 22., 21.]),
 35449: array([23., 24., 25., 26.]),
 35530: array([16., 16., 16., 17.]),
 35584: array([10., 11., 11., 11.]),
 36898: array([91., 93., 95., 96.]),
 37510: array([7., 8., 8., 8.]),
 38518: array([23., 23., 24., 24.]),
 42424: array([58., 60., 62., 64.]),
 42496: array([47., 48., 49., 50.]),
 43657: array([14., 15., 15., 16.]),
 43738: array([27., 28., 29., 30.]),
 48940: array([21., 22., 23., 23.]),
 59047: array([13., 13., 14., 14.]),
 76399: array([46., 47., 49., 50.]),
 86992: array([84., 87., 90., 93.]),
 119554: array([214., 220., 226., 231.]),
 124774: array([23., 23., 23., 23.]),
 142756: array([55., 57., 59., 60.]),
 145330: array([16., 16., 16., 17.]),
 145978: array([44., 45., 46., 47.]),
 370195: array([59., 60., 61., 62.]),
 371104: array([13., 13., 14., 14.]),
 371239: array([22., 23., 23., 24.]),
 379249: array([ 90.,  93.,  96., 100.]),
 416212: array([12., 12., 12., 13.]),
 755584: array([65., 67., 69., 71.]),
 839356: array([84., 88., 91., 94.]),
 839374: array([60., 62., 64., 66.]),
 1015621: array([10., 10., 11., 11.]),
 1021264: array([18., 18., 19., 19.]),
 1030948: array([6., 6., 6., 6.]),
 1032532: array([154., 159., 163., 168.]),
 1032541: array([174., 179., 184., 189.]),
 1032550: array([9., 8., 7., 6.]),
 1032559: array([25., 25., 26., 27.]),
 1032568: array([-4., -6., -7., -9.]),
 1032586: array([25., 25., 26., 26.]),
 1044610: array([14., 14., 14., 15.]),
 1044619: array([43., 43., 44., 44.]),
 1044682: array([49., 49., 50., 51.]),
 1044691: array([23., 24., 24., 25.]),
 1047967: array([103., 102., 101., 100.]),
 1048975: array([36., 38., 40., 42.]),
 1049776: array([34., 35., 36., 37.]),
 1050046: array([35., 36., 37., 38.]),
 1054978: array([50., 50., 50., 50.]),
 1056463: array([75., 77., 80., 83.]),
 1058713: array([54., 56., 57., 58.]),
```

```
1061341: array([25., 23., 22., 21.]),
1061638: array([39., 38., 36., 35.]),
1067119: array([30., 30., 30., 31.]),
1067128: array([10., 11., 11., 11.]),
1068883: array([8., 8., 9., 9.]),
1075651: array([15., 16., 16., 17.]),
1077118: array([29., 30., 32., 33.]),
1081321: array([15., 15., 14., 14.]),
1081339: array([10., 10.,  9.,  9.]),
1084498: array([26., 26., 27., 27.]),
1085749: array([17., 17., 18., 19.]),
1090105: array([6., 6., 6., 6.]),
1090114: array([7., 7., 7., 8.]),
1090294: array([11., 11., 11., 11.]),
1090303: array([11., 11., 12., 12.]),
9925: array([16., 16., 16., 17.]),
20824: array([122., 122., 121., 121.]),
23569: array([21., 22., 22., 22.]),
30877: array([90., 92., 93., 95.]),
32245: array([52., 53., 55., 56.]),
39436: array([-12., -16., -20., -25.]),
40759: array([65., 65., 66., 66.]),
41830: array([19., 19., 19., 19.]),
43630: array([38., 39., 40., 41.]),
50785: array([27., 28., 29., 30.]),
57058: array([10., 10., 10., 10.]),
59749: array([58., 59., 60., 61.]),
64978: array([4., 4., 4., 4.]),
65788: array([ 1., -1., -3., -4.]),
75886: array([11., 12., 12., 12.]),
86974: array([32., 33., 34., 35.]),
87046: array([16., 17., 17., 18.]),
87559: array([35., 36., 37., 38.]),
99079: array([23., 23., 23., 24.]),
110320: array([50., 50., 51., 52.]),
111382: array([10.,  9.,  9.,  9.]),
111436: array([13., 14., 14., 14.]),
117610: array([8., 7., 6., 5.]),
118033: array([20., 20., 20., 21.]),
124954: array([23., 23., 24., 24.]),
130993: array([22., 23., 23., 23.]),
132028: array([163., 164., 165., 166.]),
138742: array([24., 24., 24., 24.]),
172033: array([ 4.,  1., -3., -6.]),
172582: array([21., 21., 21., 21.]),
173617: array([30., 31., 31., 32.]),
174436: array([47., 46., 45., 44.]),
210868: array([10., 10., 11., 11.]),
211309: array([16., 16., 16., 16.]),
213802: array([9., 9., 9., 9.]),
216151: array([18., 18., 18., 19.]),
225259: array([15., 16., 16., 16.]),
248272: array([21., 21., 21., 21.]),
262384: array([19., 19., 20., 20.]),
267478: array([5., 4., 3., 3.]),
267496: array([10., 10., 10., 10.]),
399220: array([44., 45., 46., 48.]),
687616: array([18., 18., 18., 18.]),
745945: array([13., 13., 13., 12.]),
815101: array([27., 27., 27., 28.]),
```

```
836125: array([55., 56., 58., 59.]),
836152: array([21., 22., 22., 22.]),
837943: array([92., 93., 94., 94.]),
838456: array([20., 21., 21., 22.]),
858886: array([10., 11., 11., 11.]),
865933: array([12., 10.,  9.,  8.]),
877624: array([33., 33., 34., 34.]),
903976: array([25., 26., 26., 26.]),
906586: array([12., 13., 13., 13.]),
906595: array([12., 12., 13., 13.]),
913561: array([8., 8., 8., 8.]),
999403: array([29., 30., 32., 33.]),
1006009: array([ 0., -0., -1., -2.]),
1006090: array([28., 29., 30., 31.]),
1006099: array([15., 16., 16., 17.]),
1006108: array([36., 38., 39., 41.]),
1010068: array([12., 12., 11., 11.]),
1026871: array([9., 9., 9., 9.]),
1044502: array([13., 12., 12., 12.]),
1064473: array([44., 44., 45., 45.]),
1067074: array([39., 40., 40., 41.]),
1067092: array([92., 91., 90., 89.]),
1070818: array([7., 7., 7., 7.]),
1070836: array([14., 14., 13., 13.]),
1071106: array([21., 21., 21., 21.]),
1071115: array([7., 7., 7., 7.]),
1071124: array([7., 7., 6., 6.]),
1076920: array([6., 6., 5., 5.]),
1076929: array([17., 18., 18., 19.]),
1076938: array([32., 34., 36., 37.]),
1090240: array([44., 45., 46., 47.]),
1090249: array([39., 41., 42., 44.]),
1090258: array([31., 32., 33., 34.]),
1090276: array([6., 6., 6., 5.]),
1092184: array([25., 26., 26., 27.]),
1098493: array([11., 12., 12., 12.]),
1098502: array([7., 7., 7., 7.]),
1101553: array([6., 6., 6., 6.]),
1101562: array([11., 11., 11., 12.]),
1101571: array([37., 38., 40., 42.]),
1101769: array([22., 22., 23., 24.]),
1103056: array([13., 13., 13., 12.]),
1105009: array([7., 6., 6., 6.]),
1105018: array([ 9.,  9.,  9., 10.]),
1105027: array([10., 10., 10., 10.]),
7666: array([39., 34., 30., 26.]),
16936: array([67., 69., 72., 74.]),
37861: array([192., 198., 203., 209.]),
88450: array([77., 75., 74., 72.]),
131983: array([36., 36., 36., 37.]),
132334: array([27., 27., 28., 28.]),
169504: array([511., 502., 493., 484.]),
397213: array([24., 25., 25., 26.]),
893824: array([32., 31., 29., 28.]),
1013335: array([12., 12., 13., 13.]),
1047130: array([69., 70., 72., 73.]),
1060630: array([22., 21., 19., 18.]),
1063600: array([12., 12., 12., 12.]),
1064572: array([8., 8., 8., 8.]),
1066570: array([21., 17., 13.,  9.]),
```

```
1081060: array([26., 24., 21., 19.]),
1081069: array([16., 16., 16., 16.]),
1081078: array([11., 10., 10., 10.]),
1081087: array([21., 21., 20., 20.]),
1090024: array([34., 36., 37., 38.]),
1097143: array([76., 79., 82., 86.]),
1101661: array([50., 51., 53., 54.]),
23200: array([132., 137., 142., 146.]),
123307: array([546., 553., 560., 567.]),
245581: array([148., 153., 158., 163.]),
731104: array([21., 21., 21., 22.]),
753613: array([85., 90., 94., 98.]),
836584: array([183., 186., 190., 194.]),
872260: array([19., 19., 20., 20.]),
1003147: array([113., 116., 120., 123.]),
1003156: array([126., 131., 135., 139.]),
1003183: array([28., 29., 30., 31.]),
1003192: array([51., 54., 56., 58.]),
1024810: array([83., 85., 87., 88.]),
1060909: array([114., 118., 122., 126.]),
1074823: array([ -2., -17., -33., -48.]),
1082743: array([55., 59., 62., 65.])}
```

In [53]:

```
test_data = pd.read_csv('test_data.csv')  #read the csv file into pandas frame
```

In [54]:

```
test_data
```

Out[54]:

	CategoryCode	ItemCode	Week	PredictedSales
0	category_1	43738	w4	NaN
1	category_2	1006090	w1	NaN
2	category_2	1076929	w4	NaN
3	category_1	1081321	w3	NaN
4	category_2	216151	w4	NaN
...	...	...	...	...
372	category_2	1101571	w1	NaN
373	category_2	1090258	w4	NaN
374	category_2	906595	w1	NaN
375	category_2	32245	w1	NaN
376	category_2	1006090	w2	NaN

377 rows × 4 columns

In [55]:

```
def updatesales(code,week):
    week_no=int(week[1])
    new_sales=final[code][week_no-1]
    print(new_sales)
    return int(new_sales)
sales_list=[]
```

```
for i in range(377):
    row=test_data.iloc[i]
    code=row[1]
    week=row[2]

    new_sale=updatesales(code,week)
    sales_list.append(new_sale)
test_data['PredictedSales']=sales_list
```

```
30.0
28.0
19.0
14.0
19.0
12.0
62.0
132.0
8.0
21.0
32.0
25.0
546.0
92.0
30.0
77.0
38.0
23.0
18.0
7.0
18.0
10.0
36.0
36.0
25.0
-3.0
80.0
16.0
12.0
14.0
58.0
7.0
11.0
29.0
31.0
220.0
3.0
1.0
16.0
484.0
22.0
17.0
-25.0
10.0
17.0
31.0
18.0
13.0
18.0
85.0
16.0
```

14.0
27.0
8.0
13.0
75.0
7.0
55.0
192.0
12.0
26.0
103.0
30.0
10.0
26.0
10.0
16.0
29.0
56.0
93.0
90.0
8.0
32.0
10.0
87.0
61.0
14.0
93.0
50.0
21.0
40.0
9.0
47.0
19.0
13.0
198.0
159.0
-1.0
22.0
60.0
24.0
7.0
19.0
13.0
27.0
14.0
21.0
27.0
7.0
24.0
18.0
75.0
50.0
19.0
46.0
18.0
60.0
493.0
31.0
14.0
12.0

51.0
18.0
101.0
18.0
26.0
7.0
16.0
18.0
7.0
33.0
27.0
36.0
27.0
19.0
9.0
39.0
6.0
-20.0
16.0
19.0
5.0
30.0
18.0
16.0
16.0
35.0
47.0
17.0
29.0
28.0
11.0
231.0
11.0
8.0
34.0
17.0
42.0
44.0
-4.0
19.0
16.0
28.0
10.0
8.0
17.0
20.0
25.0
47.0
142.0
38.0
567.0
10.0
45.0
17.0
85.0
22.0
8.0
50.0
9.0
154.0

32.0
6.0
18.0
11.0
50.0
26.0
17.0
62.0
7.0
44.0
10.0
21.0
31.0
59.0
24.0
29.0
9.0
24.0
10.0
-6.0
16.0
64.0
49.0
74.0
16.0
16.0
37.0
146.0
11.0
7.0
16.0
11.0
40.0
16.0
94.0
12.0
64.0
62.0
72.0
66.0
6.0
-12.0
10.0
15.0
10.0
102.0
25.0
30.0
62.0
24.0
26.0
95.0
17.0
-9.0
9.0
22.0
17.0
16.0
19.0
30.0

60.0
5.0
4.0
88.0
19.0
21.0
48.0
58.0
12.0
23.0
72.0
14.0
15.0
6.0
21.0
9.0
18.0
30.0
226.0
37.0
9.0
16.0
9.0
54.0
38.0
12.0
28.0
33.0
19.0
46.0
23.0
11.0
23.0
23.0
94.0
35.0
11.0
16.0
27.0
91.0
168.0
-16.0
25.0
96.0
15.0
-4.0
23.0
15.0
3.0
100.0
13.0
25.0
50.0
511.0
15.0
163.0
31.0
560.0
23.0
11.0

30.0
13.0
9.0
40.0
19.0
28.0
22.0
14.0
16.0
41.0
33.0
18.0
26.0
39.0
93.0
74.0
203.0
9.0
14.0
45.0
22.0
69.0
502.0
34.0
83.0
21.0
19.0
23.0
19.0
16.0
9.0
553.0
26.0
94.0
209.0
10.0
28.0
9.0
9.0
214.0
87.0
16.0
41.0
-7.0
27.0
20.0
18.0
10.0
20.0
13.0
11.0
29.0
16.0
65.0
27.0
40.0
28.0
17.0
9.0
10.0

```
83.0
13.0
90.0
10.0
21.0
56.0
15.0
19.0
23.0
67.0
14.0
84.0
7.0
38.0
10.0
24.0
77.0
10.0
37.0
32.0
53.0
37.0
34.0
12.0
52.0
29.0
```

In [56]:
```
len(sales_list)
```

Out[56]:
```
377
```

In [57]:
```
test_data
```

Out[57]:

	CategoryCode	ItemCode	Week	PredictedSales
0	category_1	43738	w4	30
1	category_2	1006090	w1	28
2	category_2	1076929	w4	19
3	category_1	1081321	w3	14
4	category_2	216151	w4	19
...	...	...	...	...
372	category_2	1101571	w1	37
373	category_2	1090258	w4	34
374	category_2	906595	w1	12
375	category_2	32245	w1	52
376	category_2	1006090	w2	29

377 rows × 4 columns

In [58]:
```
test_data['ID']=test_data['CategoryCode']+'_'+test_data['ItemCode'].astype(str)+'_'+tes
```

In [59]:
```
test_data
```

Out[59]:

	CategoryCode	ItemCode	Week	PredictedSales	ID
0	category_1	43738	w4	30	category_1_43738_w4
1	category_2	1006090	w1	28	category_2_1006090_w1
2	category_2	1076929	w4	19	category_2_1076929_w4
3	category_1	1081321	w3	14	category_1_1081321_w3
4	category_2	216151	w4	19	category_2_216151_w4
...	...	...	...	...	...
372	category_2	1101571	w1	37	category_2_1101571_w1
373	category_2	1090258	w4	34	category_2_1090258_w4
374	category_2	906595	w1	12	category_2_906595_w1
375	category_2	32245	w1	52	category_2_32245_w1
376	category_2	1006090	w2	29	category_2_1006090_w2

377 rows × 5 columns

In [60]:
```
final_test_data = test_data.loc[0:,['ID','PredictedSales']]
```

In [61]:
```
final_test_data
```

Out[61]:

	ID	PredictedSales
0	category_1_43738_w4	30
1	category_2_1006090_w1	28
2	category_2_1076929_w4	19
3	category_1_1081321_w3	14
4	category_2_216151_w4	19
...	...	...
372	category_2_1101571_w1	37
373	category_2_1090258_w4	34
374	category_2_906595_w1	12
375	category_2_32245_w1	52
376	category_2_1006090_w2	29

377 rows × 2 columns

In [63]:
```
final_test_data.to_csv('test_data1.csv')
```

In [ ]:
```

```

using linear regreesion for a item

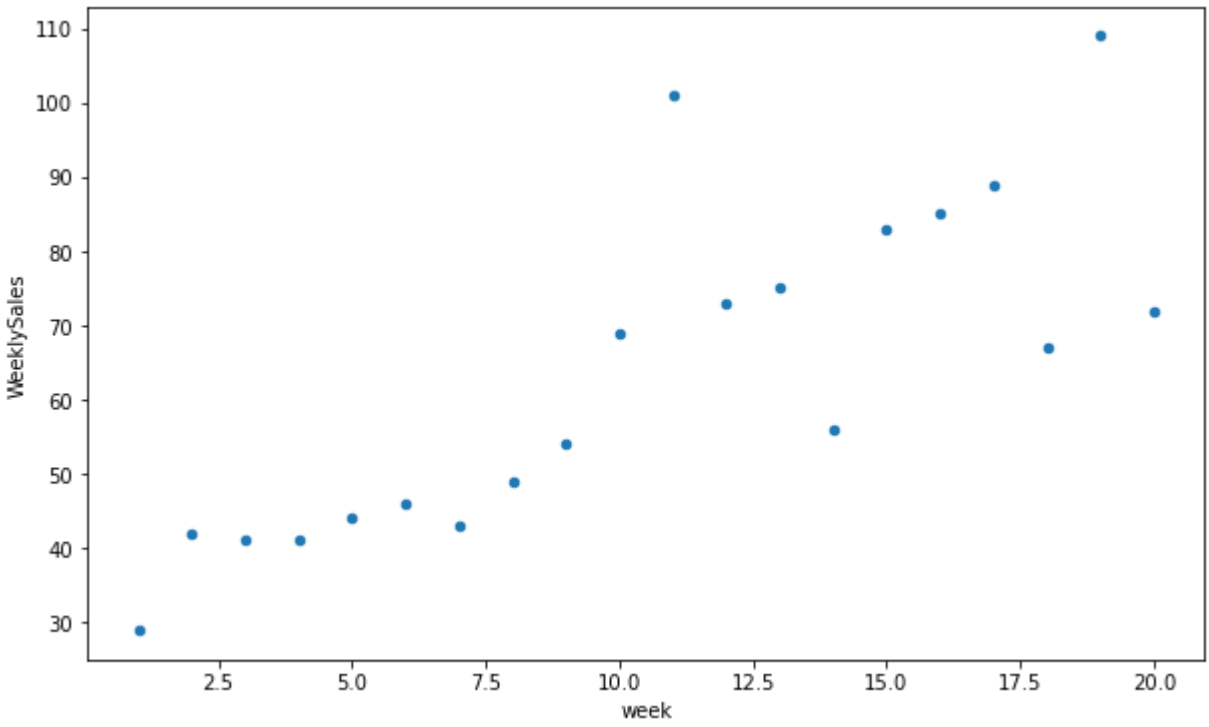
In [62]:
```
dt_item1=dt[dt['ItemCode']==3418]
```

In [64]:
```
dt_item1
```

Out[64]:

	CategoryCode	ItemCode	week	WeeklySales
0	category_1	3418	1	29
1	category_1	3418	2	42
2	category_1	3418	3	41
3	category_1	3418	4	41
4	category_1	3418	5	44
5	category_1	3418	6	46
6	category_1	3418	7	43
7	category_1	3418	8	49
8	category_1	3418	9	54
9	category_1	3418	10	69
10	category_1	3418	11	101
11	category_1	3418	12	73
12	category_1	3418	13	75
13	category_1	3418	14	56
14	category_1	3418	15	83
15	category_1	3418	16	85
16	category_1	3418	17	89
17	category_1	3418	18	67
18	category_1	3418	19	109
19	category_1	3418	20	72

In [65]:
```
dt_item1.plot(kind = 'scatter',
              x = 'week',
              y = 'WeeklySales',
              figsize=(10,6))
plt.savefig('plot4.png')
plt.show()
```



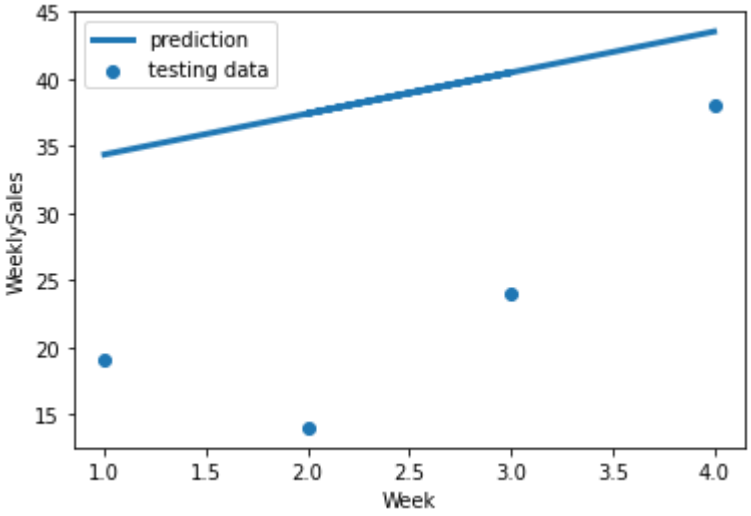
In [66]:

```
X_train= dt_item1[['week']]
Y_train=dt_item1['WeeklySales']
X_test = validation_data_item[['week']]
Y_test = validation_data_item['WeeklySales']
from sklearn.linear_model import LinearRegression
model =LinearRegression(normalize=True)

model.fit(X_train, Y_train)
y_test_predicted = model.predict(X_test)
result=y_test_predicted.round(0)
```

In [67]:

```
plt.scatter(X_test, Y_test,
label='testing data');
plt.plot(X_test, y_test_predicted,
label='prediction', linewidth=3)
plt.xlabel('Week'); plt.ylabel('WeeklySales')
plt.legend(loc='upper left')
plt.savefig("prediction of the testing data")
plt.show()
```



Using xgboost regression and Random Forest regression models to train the model and test the model since linear regression model is not that much accurate

In [ ]:

In [71]:
```
df = pd.read_csv("train_data.csv")
```

In [72]:
```
pd.set_option('display.max_rows', 10)
```

In [73]:
```
training_range = pd.date_range('2021-10-01', '2022-02-13')
testing_range = pd.date_range('2022-02-20', '2022-03-13', freq='W-SUN')
```

In [74]:
```
def week_of_month(sunday):
    return (sunday.day - 1) // 7 + 1
```

In [75]:
```
def data_for_item(item_code):
    filtered_df = df.loc[df['ItemCode'] == item_code]
    filtered_df["DateID"] = pd.to_datetime(filtered_df["DateID"], format = "%m/%d/%Y")

    filtered_df.set_index(filtered_df.DateID, inplace=True)
    filtered_df.drop('DateID', axis=1, inplace=True)
    filtered_df.drop('ItemCode', axis = 1, inplace = True)
    filtered_df.drop('CategoryCode', axis = 1, inplace = True)

    average_sales = 0.5*sum(filtered_df.DailySales) / len(filtered_df)
    for date in training_range:
        if date not in filtered_df.index:
            filtered_df.loc[date] = [0]

    filtered_df = filtered_df.sort_index()
```

```
    weekly_sales = filtered_df.groupby(pd.Grouper(freq='W')).sum()
    weekly_sales.rename(columns = {'DailySales': 'WeeklySales'}, inplace = True)
    weekly_sales = create_lag(weekly_sales)
    weekly_sales['month'] = weekly_sales.index.month
    weekly_sales['week'] = weekly_sales.index.map(week_of_month)
    train_x = weekly_sales.loc[:, weekly_sales.columns != 'WeeklySales']
    train_y = weekly_sales['WeeklySales']
    return weekly_sales, train_x, train_y
```

In [76]:

```
def create_lag(df3):
    dataframe = pd.DataFrame()
    for i in range(2, 0, -1):
        dataframe['t-' + str(i)] = df3.WeeklySales.shift(i)
    df4 = pd.concat([df3, dataframe], axis=1)
    df4.dropna(inplace=True)
    return df4
```

In [77]:

```
from sklearn.feature_selection import RFE
from sklearn.ensemble import RandomForestRegressor
from xgboost import XGBRegressor
```

In [78]:

```
def train_predict(weekly_sales, train_x, train_y):
    model = RandomForestRegressor(n_estimators=6, max_depth=10, random_state = 10)

    fit = model.fit(train_x, train_y)
    results = []

    train_pred = fit.predict(train_x)
    train_error = accuracy(train_y.values, train_pred)

    for date in testing_range:
        prev_row = weekly_sales.iloc[-1]
        test_x = pd.DataFrame({'month': [date.month],
                               'week': [date.weekofyear],
                               't-1':[prev_row['WeeklySales']],
                               't-2': [prev_row['t-1']]})

        prediction = round(fit.predict(test_x)[0])
        test_x['WeeklySales'] = [prediction]
        test_x.index = [date]
        #print(test_x)
        weekly_sales = weekly_sales.append(test_x)
        results.append(prediction)

    #print(weekly_sales)
    return results, train_error
```

In [79]:

```
def predict_for_one_item(item_code):
    weekly_sales, train_x, train_y = data_for_item(item_code)
    result, error = train_predict(weekly_sales, train_x, train_y)
    #print("Item {} Training error: {}".format(item_code, error))
    return result
```

Calculating MAPE(mean absolute percentage error) score

In [80]:
```
def accuracy(actual, pred):
    diff = np.sum(np.abs(actual - pred))
    return diff / np.sum(actual)
```

In [81]:
```
def predict_for_test(path):
    val_df = pd.read_csv(path)
    results = {}
    for item_code in val_df.ItemCode.unique():
        #print(item_code)
        sales = predict_for_one_item(item_code)
        weeks = {}
        for i in range(4):
            weeks['w'+str(i+1)] = sales[i]
        results[item_code] = weeks
    val_df['Predictions'] = val_df.apply(lambda row: results[row.ItemCode][row.Week], a
    val_df['ID'] = val_df.apply(lambda row: row.CategoryCode + '_' + str(row.ItemCode)

    if 'WeeklySales' in val_df:
        print("Accuracy:", accuracy(val_df.WeeklySales.values, val_df.Predictions.value
    return val_df
```

In [82]:
```
error_for_xgboost_randomforest_model = predict_for_test('validation_data.csv')*100
```

```
C:\Users\mailt\AppData\Local\Temp/ipykernel_15620/2832327092.py:3: SettingWithCopyWarnin
g:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_
guide/indexing.html#returning-a-view-versus-a-copy
  filtered_df["DateID"] = pd.to_datetime(filtered_df["DateID"], format = "%m/%d/%Y")
C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\frame.py:4906: SettingWithCopyWar
ning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_
guide/indexing.html#returning-a-view-versus-a-copy
  return super().drop(
C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\indexing.py:723: SettingWithCopyW
arning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_
guide/indexing.html#returning-a-view-versus-a-copy
  iloc._setitem_with_indexer(indexer, value, self.name)
C:\Users\mailt\AppData\Local\Temp/ipykernel_15620/2832327092.py:3: SettingWithCopyWarnin
g:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_
guide/indexing.html#returning-a-view-versus-a-copy
  filtered_df["DateID"] = pd.to_datetime(filtered_df["DateID"], format = "%m/%d/%Y")
C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\frame.py:4906: SettingWithCopyWar
```

```
ning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_
guide/indexing.html#returning-a-view-versus-a-copy
  return super().drop(
C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\indexing.py:723: SettingWithCopyW
arning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_
guide/indexing.html#returning-a-view-versus-a-copy
  iloc._setitem_with_indexer(indexer, value, self.name)
C:\Users\mailt\AppData\Local\Temp/ipykernel_15620/2832327092.py:3: SettingWithCopyWarnin
g:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_
guide/indexing.html#returning-a-view-versus-a-copy
  filtered_df["DateID"] = pd.to_datetime(filtered_df["DateID"], format = "%m/%d/%Y")
C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\frame.py:4906: SettingWithCopyWar
ning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_
guide/indexing.html#returning-a-view-versus-a-copy
  return super().drop(
C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\indexing.py:723: SettingWithCopyW
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guide/indexing.html#returning-a-view-versus-a-copy
  iloc._setitem_with_indexer(indexer, value, self.name)
C:\Users\mailt\AppData\Local\Temp/ipykernel_15620/2832327092.py:3: SettingWithCopyWarnin
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C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\frame.py:4906: SettingWithCopyWar
ning:
```

```
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guide/indexing.html#returning-a-view-versus-a-copy
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  iloc._setitem_with_indexer(indexer, value, self.name)
Accuracy: 0.43657164528158776
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  iloc._setitem_with_indexer(indexer, value, self.name)
```

In [83]:
```
error_for_xgboost_randomforest_model
```

Out[83]:

	CategoryCode	ItemCode	
0	category_2category_2category_2category_2catego...	104450200	w1w1w1w1w1w1w1w1w1w1w1w1w1w1w
1	category_2category_2category_2category_2catego...	110500900	w1w1w1w1w1w1w1w1w1w1w1w1w1w1w
2	category_2category_2category_2category_2catego...	91356100	w4w4w4w4w4w4w4w4w4w4w4w4w4w4w4
3	category_1category_1category_1category_1catego...	104897500	w4w4w4w4w4w4w4w4w4w4w4w4w4w4w4
4	category_1category_1category_1category_1catego...	1728700	w2w2w2w2w2w2w2w2w2w2w2w2w2w2w2
...	...	...	
365	category_2category_2category_2category_2catego...	12495400	w2w2w2w2w2w2w2w2w2w2w2w2w2w2w2
366	category_2category_2category_2category_2catego...	4075900	w1w1w1w1w1w1w1w1w1w1w1w1w1w1w
367	category_1category_1category_1category_1catego...	109030300	w1w1w1w1w1w1w1w1w1w1w1w1w1w1w

	CategoryCode	ItemCode	
368	category_2category_2category_2category_2catego...	109027600	w3w3w3w3w3w3w3w3w3w3w3w3w3w3w
369	category_1category_1category_1category_1catego...	341800	w4w4w4w4w4w4w4w4w4w4w4w4w4w4w

370 rows × 6 columns

In [84]:

```
test_df = predict_for_test('test_data.csv')
```

```
C:\Users\mailt\AppData\Local\Temp/ipykernel_15620/2832327092.py:3: SettingWithCopyWarnin
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```

In [85]:
```
test_df
```

Out[85]:

	CategoryCode	ItemCode	Week	PredictedSales	Predictions	ID
0	category_1	43738	w4	NaN	13	category_1_43738_w4
1	category_2	1006090	w1	NaN	24	category_2_1006090_w1
2	category_2	1076929	w4	NaN	42	category_2_1076929_w4
3	category_1	1081321	w3	NaN	14	category_1_1081321_w3
4	category_2	216151	w4	NaN	25	category_2_216151_w4
...	...	...	...	...	...	...
372	category_2	1101571	w1	NaN	40	category_2_1101571_w1
373	category_2	1090258	w4	NaN	71	category_2_1090258_w4
374	category_2	906595	w1	NaN	10	category_2_906595_w1
375	category_2	32245	w1	NaN	45	category_2_32245_w1
376	category_2	1006090	w2	NaN	24	category_2_1006090_w2

377 rows × 6 columns

In [87]:
```
final_test_data2 = test_df.loc[0:,['ID','Predictions']]
```

In [88]:
```
final_test_data2
```

Out[88]:

	ID	Predictions
0	category_1_43738_w4	13
1	category_2_1006090_w1	24
2	category_2_1076929_w4	42
3	category_1_1081321_w3	14
4	category_2_216151_w4	25
...	...	...
372	category_2_1101571_w1	40
373	category_2_1090258_w4	71
374	category_2_906595_w1	10
375	category_2_32245_w1	45
376	category_2_1006090_w2	24

377 rows × 2 columns

In [89]:
```
final_test_data2.to_csv('test_data4.csv')
```

In [ ]:

In [ ]:

In [ ]: