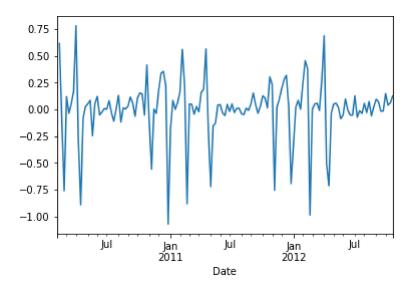


```
In [9]: 1 # ADF Test
2 result_adf = adfuller(dat_grouped['Weekly_Sales'])
3 print('ADF Statistic:', result_adf[0])
4 print('p-value:', result_adf[1])
```

ADF Statistic: -2.5221638686500403 p-value: 0.11017432282586914

```
In [12]: 1 dat_grouped["Weekly_Sales_diff"].plot()
```

Out[12]: <AxesSubplot:xlabel='Date'>



In [14]: 1 print(dat_grouped.head())

	weekiy_Saies	weekiy_Saies_iog	weekiy_Saies_diff	- /
Date				
2010-02-05	24924.50	10.123607	NaN	
2010-02-12	46039.49	10.737255	0.613648	
2010-02-19	41595.55	10.635748	-0.101506	
2010-02-26	19403.54	9.873211	-0.762538	
2010-03-05	21827.90	9.990944	0.117733	

Weekly_Sales_growth

νατε	
2010-02-05	NaN
2010-02-12	61.364825
2010-02-19	-10.150632
2010-02-26	- 76.253767
2010-03-05	11.773344

