



Markdown



## importing pandas library and other libraries

In [24]:



```
1 import pandas as pd
2 import matplotlib.pyplot as plt
3 %matplotlib inline
```

## reading csv file

In [25]:



```
1 df=pd.read_csv("data2.csv")
```

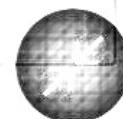
## printing initial rows

In [26]:



```
1 df.head()
```

Out[26]:





## reading csv file

In [25]:



```
1 df=pd.read_csv("data2.csv")
```

## printing initial rows

In [26]:

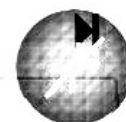


```
1 df.head()
```

Out[26]:

	<b>datetime</b>
0	2012-06-30 1:00:00
1	2012-06-30 2:00:00
2	2012-06-30 3:00:00
3	2012-06-30 4:00:00
4	2012-06-30 5:00:00

In [27]:



```
1 df.shape
```



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In [27]:



```
1 df.shape
```

Out[27]:

```
(4399, 1)
```

In [82]:



```
1 df=pd.get_dummies(df)
```

## creating train dataset

In [28]:



```
1 train=df[1:2200]
```

## creating test data set

In [29]:

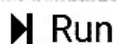


```
1 test=df[2201:]
```

In [83]:



```
1 test.head()
```



## creating train dataset

In [28]:



```
1 train=df[1:2200]
```

## creating test data set

In [29]:



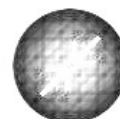
```
1 test=df[2201:]
```

In [83]:



```
1 test.head()
```

Out[83]:

**datetime****2201** 2012-09-29 18:00:00**2202** 2012-09-29 19:00:00**2203** 2012-09-29 20:00:00**2204** 2012-09-29 21:00:00**2205** 2012-09-29 22:00:00



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In [31]:



```
1 x_train=train.drop('datetime',axi
```

In [32]:



```
1 y_train=train['datetime']
```

In [33]:



```
1 x_test=test.drop('datetime',axis=
```

In [34]:



```
1 true_p=test['datetime']
```

In [35]:



```
1 from sklearn.linear_model import
```

In [36]:



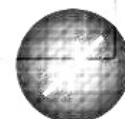
```
1 lreg=LinearRegression()
```

In [85]:



```
1 lreg.fit(x_train , x_test)
```

Out[85]:





```
1 lreg.fit(x_train , x_test)
```

Out[85]:

LinearRegression()

In [44]:



```
1 x_train=pd.get_dummies(x_train)
```

In [16]:



```
1 x_train.shape
```

Out[16]:

(2199, 0)

In [54]:



```
1 x_test=pd.get_dummies(x_test)
```

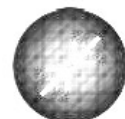
In [55]:



```
1 x_test.shape
```

Out[55]:

(1, 1)





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(1, 1)

In [68]:



```
1 pred=lreg.predict(x_test)
```

In [86]:



```
1 pred
```

Out[86]:

```
array([[1.]])
```

In [87]:



```
1 x_train.fillna(0,inplace=True)
```

In [88]:



```
1 x_test.fillna(0,inplace=True)
```

