In [2]:

```
from datacl import Clean
import statsmodels.api as sm
import statsmodels.formula.api as smf

clean=Clean()
df=clean.load_excel("D:/Github/BigData-project/weather.xlsx")
y=df.iloc[:, :1]
x=df.iloc[:, 1:]
```

In [3]:

```
model=smf.ols("price ~ temp", data=df)
res=model.fit()
print(res.summary())
```

OLS Regression Results

Dep. Variable:	price	R-squared:	0.031
Model:	OLS	Adj. R-squared:	0.028
Method:	Least Squares	F-statistic:	10.23
Date:	Sun, 26 Aug 2018	Prob (F-statistic):	0.00152
Time:	11:52:25	Log-Likelihood:	-2994.7
No. Observations:	326	AIC:	5993.
Df Residuals:	324	BIC:	6001.
Df Madal.	1		

Df Model: 1
Covariance Type: nonrobust

========						
	coef	std err	t	P> t	[0.025	0.975]
Intercept	1.237e+04 38.7403	210.952	58.649	0.000	1.2e+04	1.28e+04
========	=========	=======================================	=======	=========	=========	========
Omnibus:		16.4	455 Durbi	n-Watson:		1.780
Prob(Omnibu	ıs):	0.0	000 Jarqu	e-Bera (JB):	:	24.844
Skew:		-0.3	358 Prob(JB):		4.03e-06
Kurtosis:		4.1	147 Cond.	No.		28.1

Warnings:

[1] Standard Errors assume that the covariance matrix of the errors is correctly spec ified.

In [4]:

```
fig = sm.graphics.plot_regress_exog(res, "temp")
```



