```
import numpy as np
import pandas as pd
%matplotlib inline
import matplotlib.pyplot as plt
import seaborn as sns
color = sns.color_palette()
sns.set_style('darkgrid')
import warnings
def ignore_warn(*args, **kwargs):
   pass
warnings.warn = ignore_warn
from scipy import stats
from scipy.stats import norm, skew
pd.set_option('display.float_format', lambda x: '{:.3f}'.format(x))
from subprocess import check_output
print(check_output(["ls", "../input"]).decode("utf8"))
train = pd.read_csv('/kaggle/input/house-prices-advanced-regression-techni
ques/train.csv')
test = pd.read_csv('/kaggle/input/house-prices-advanced-regression-techniq
ues/test.csv')
train.head(5)
```

I d	MS Su bCl as s	M S Zo ni ng	Lot Fr ont ag e	L ot A re a	S tr e e t	A II e y	Lo tS ha pe	La nd Co nto ur	U til iti e s		P o ol Ar e a	P o ol Q C	F e n c e	Mi sc Fe atu re	M is c V al	M o S ol d	Y r S ol d	S al e Ty p e	Sal eC on diti on	S al e Pr ic e	
0	1	60	RL	6 5. 0 0	8 4 5 0	P a v e	N a N	Re g	L VI	A II P u b		0	N a N	Na N	N a N	0	2	2 0 0 8	W D	N or m al	2 0 8 5 0

I d	MS Su bCl as s	M S Zo ni ng	Lot Fr ont ag e	L ot A re a	S tr e e t	A II e y	Lo tS ha pe	La nd Co nto ur	U til iti e s		P o ol Ar e a	P o ol Q C	F e n c e	Mi sc Fe atu re	M is c V al	M o の o d	Yr Sold	S al e Ty p e	Sal eC on diti on	S al e Pr ic e	
1	2	20	RL	8 0. 0 0	9 6 0	P a v e	N a N	Re g	L vl	A II P u b		0	N a N	Na N	N a N	0	5	2 0 0 7	W D	N or m al	1 8 1 5 0
2	3	60	RL	6 8. 0 0	1 1 2 5 0	P a v e	N a N	IR 1	L vl	A II P u b		0	N a N	Na N	N a N	0	9	2 0 0 8	W D	N or m al	2 2 3 5 0
3	4	70	RL	6 0. 0 0	9 5 5 0	P a v e	N a N	IR 1	L vl	A II P u b		0	N a N	Na N	N a N	0	2	2 0 0 6	W D	A bn or ml	1 4 0 0 0
4	5	60	RL	8 4. 0 0	1 4 2 6 0	P a v e	N a N	IR 1	L vl	A II P u b	.:	0	N a N	Na N	N a N	0	1 2	2 0 0 8	W D	N or m al	2 5 0 0 0

test.head(5)

I	MS Su bCl as s	M S Zo ni ng	Lot Fr ont ag e	L ot A re a	S tr e e t	A II e y	Lo tS ha pe	La nd Co nto ur	U til iti e s		Scr ee nP orc h	P o ol Ar e a	P o ol Q C	F e n c e	Mi sc Fe atu re	M is c V al	M o S ol d	Y r S ol d	S al e Ty p e	Sal eC on diti on	
0	14 61	20	R H	8 0. 0 0	1 1 6 2 2	P a v e	N a N	Re g	L vl	A II P u b		1 2 0	0	N a N	Mn Pr v	N a N	0	6	2 0 1 0	W D	N o r m al
1	14 62	20	RL	8 1. 0 0	1 4 2 6 7	P a v e	N a N	IR 1	L vl	A II P u b		0	0	N a N	Na N	G ar 2	1 2 5 0	6	2 0 1 0	W D	N o r m al
2	14 63	60	RL	7 4. 0 0	1 3 8 3 0	P a v e	N a N	IR 1	L vl	A II P u b		0	0	N a N	Mn Pr v	N a N	0	3	2 0 1 0	W D	N o r m al
3	14 64	60	RL	7 8. 0 0	9 9 7 8	P a v e	N a N	IR 1	L vl	A II P u b		0	0	N a N	Na N	N a N	0	6	2 0 1 0	W D	N o r m al
4	14 65	12 0	RL	4 3. 0 0	5 0 0 5	P a v e	N a N	IR 1	H L S	A II P u b		1 4 4	0	N a N	Na N	N a N	0	1	2 0 1 0	W D	N o r m al

```
fig, ax = plt.subplots()
ax.scatter(x = train['GrLivArea'], y = train['SalePrice'])
```

```
plt.ylabel('SalePrice', fontsize=13)
plt.xlabel('GrLivArea', fontsize=13)
plt.show()
```