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sample_data

House Price India.csv.zip

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
dataset=pd.read_csv('/content/House Price India.csv.zip')
#printing first 5 records of the dataset
print(dataset.head(5))
```

```
           id   Date  number of bedrooms  number of bathrooms  living area  \
0  6762810145  42491                   5                 2.50         3650
1  6762810635  42491                   4                 2.50         2920
2  6762810998  42491                   5                 2.75         2910
3  6762812605  42491                   4                 2.50         3310
4  6762812919  42491                   3                 2.00         2710

   lot area  number of floors  waterfront present  number of views  \
0      9050               2.0                   0                4
1      4000               1.5                   0                0
2      9480               1.5                   0                0
3     42998               2.0                   0                0
4      4500               1.5                   0                0

   condition of the house  ...  Built Year  Renovation Year  Postal Code  \
0                       5  ...        1921                0       122003
1                       5  ...        1909                0       122004
2                       3  ...        1939                0       122004
3                       3  ...        2001                0       122005
4                       4  ...        1929                0       122006

   Lattitude  Longitude  living_area_renov  lot_area_renov  \
```

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sample_data

House Price India.csv.zip

[2] dataset.shape

```
(14620, 23)
```

```
#Data processing
obj=(dataset.dtypes=='object')
obj_cols=list(obj[obj].index)
print("Categorical Variables:",len(obj_cols))
int=(dataset.dtypes=='int')
num_cols=list(int[int].index)
print("Numerical Variables:",len(num_cols))
fl = (dataset.dtypes == 'float')
fl_cols = list(fl[fl].index)
print("Float variables:",len(fl_cols))
```

```
Categorical Variables: 0
Numerical Variables: 19
Float variables: 4
```

[6]

```
plt.figure(figsize=(12, 6))
sns.heatmap(dataset.corr(),
            cmap = 'BrBG',
            fmt = '.2f',
            linewidths = 2,
            annot = True)
```

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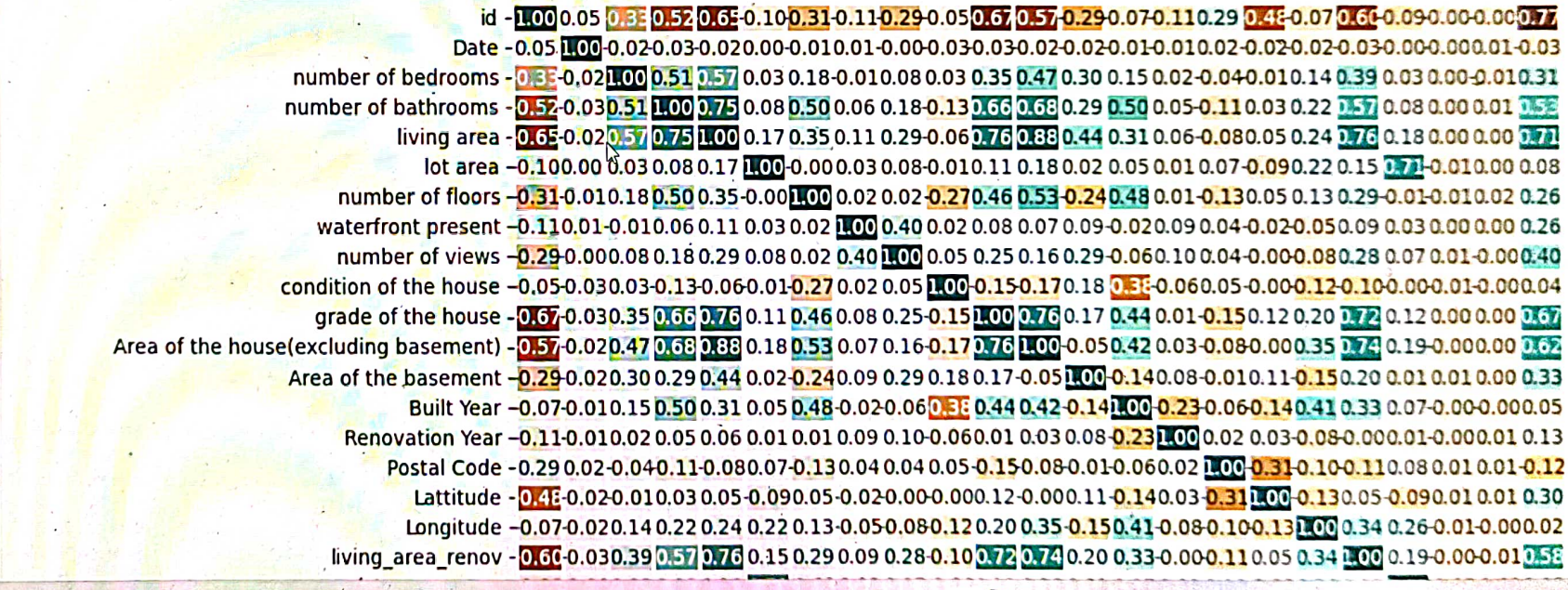
```
plt.figure(figsize=(12, 6))
sns.heatmap(dataset.corr(),
            cmap = 'BrBG',
            fmt = '.2f',
            linewidths = 2,
            annot = True)
```

<Axes: >



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sample_data

House Price India.csv.zip

[13] 1s
```
#data cleaning
dataset.drop(['id'],
             axis=1,
             inplace=True)
```

[16] 0s
```
#Replacing SalePrice empty values with their mean values to make the data distribution symmetric.
dataset['Price'] = dataset['Price'].fillna(
  dataset['Price'].mean())
```

0s
```
#Drop records with null values (as the empty records are very less).

new_dataset = dataset.dropna()
new_dataset
```

	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house	grade of the house	...	Built Year	Renovation Year	Postal Code	Lattit
0	42491	5	2.50	3650	9050	2.0	0	4	5	10	...	1921	0	122003	52.8
1	42491	4	2.50	2920	4000	1.5	0	0	5	8	...	1909	0	122004	52.8
2	42491	5	2.75	2910	9480	1.5	0	0	3	8	...	1939	0	122004	52.8
3	42491	4	2.50	3310	42998	2.0	0	0	3	9	...	2001	0	122005	52.9
4	42491	3	2.00	2710	4500	1.5	0	0	4	8	...	1929	0	122006	52.9

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sample_data

House Price India.csv.zip

1s

```
#Checking features which have null values in the new dataframe (if there are still any).

new_dataset.isnull().sum()
```

```
Date                                  0
number of bedrooms                    0
number of bathrooms                   0
living area                           0
lot area                              0
number of floors                      0
waterfront present                    0
number of views                       0
condition of the house                0
grade of the house                    0
Area of the house(excluding basement)    0
Area of the basement                  0
Built Year                            0
Renovation Year                       0
Postal Code                           0
Lattitude                             0
Longitude                             0
living_area_renov                     0
lot_area_renov                        0
Number of schools nearby              0
Distance from the airport             0
Price                                 0
dtype: int64
```

[ ] {text cut off: coding or generate with AI}

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