

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from sklearn import linear_model
```

```
df=pd.read_csv("/content/Homes.csv")
```

```
df
```

→

	area	bedrooms	price	grid icon
0	2600	3.0	550000	info icon
1	3000	2.0	565000	edit icon
2	3200	NaN	610000	
3	3600	4.0	680000	
4	4000	3.0	725000	

Next steps: [Generate code with df](#)

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```
df.bedrooms.median()
```

→ 3.0

```
import math
median_br=math.floor(df.bedrooms.median())
median_br
```

→ 3

```
df.bedrooms.fillna(median_br)
```

→

	bedrooms
0	3.0
1	2.0
2	3.0
3	4.0
4	3.0

dtype: float64

```
df.bedrooms=df.bedrooms.fillna(median_br)
df
```

→ area bedrooms price

	area	bedrooms	price	
0	2600	3.0	550000	grid
1	3000	2.0	565000	bar
2	3200	3.0	610000	edit
3	3600	4.0	680000	
4	4000	3.0	725000	

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```
reg=linear_model.LinearRegression()
reg.fit(df[['area', 'bedrooms']], df.price)
```

→ ▾ LinearRegression ⓘ ⓘ

LinearRegression()

```
reg.intercept_
```

→ np.float64(154554.65587044525)

```
reg.coef_
```

→ array([-125.60728745, 19817.81376518])

```
reg.predict([[3000,3]])
```

→ /usr/local/lib/python3.12/dist-packages/sklearn/utils/validation.py:2739: UserWarning
 warnings.warn(
array([590829.95951417])

```
125.60728745*3000+19817.81376518+154554.65587044525
```

→ 551194.3319856252

