```
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     Chirag ghuge(222)
     Samruddhi Kinhikar(232)
                            ASSIGNMENT 5


import matplotlib.pyplot
df = pd.read_csv("/content/house - Copy.csv")
df1 =df.groupby("Location").sum()
print(df1)
plt.bar(df1.index,df1['price'])
plt.show()
```

```
    beds  baths   size  lot_size  zip_code     price
Location
Alandi        45   29.0  31951   57882.91   1570042  15971634
Balewadi      50   41.5  30873   50298.97   1668428  15239697
Hinjewadi     49   33.5  31159   60116.99   1569843  13966450
Kothrud       52   40.0  33343   65062.49   1668051  14505500
Lohegaon      46   38.5  27412   42566.36   1570021  14604500
Pune          51   35.5  32947   46587.68   1668205  17424459
<ipython-input-38-b28fc1aaa8b1>:3: FutureWarning: The default value of numeric_only in DataFrameGroupBy.sum is deprecated. In a future version, numeric_only will default to False. Either specify numeric_only or select only columns which should be valid for the function.
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```
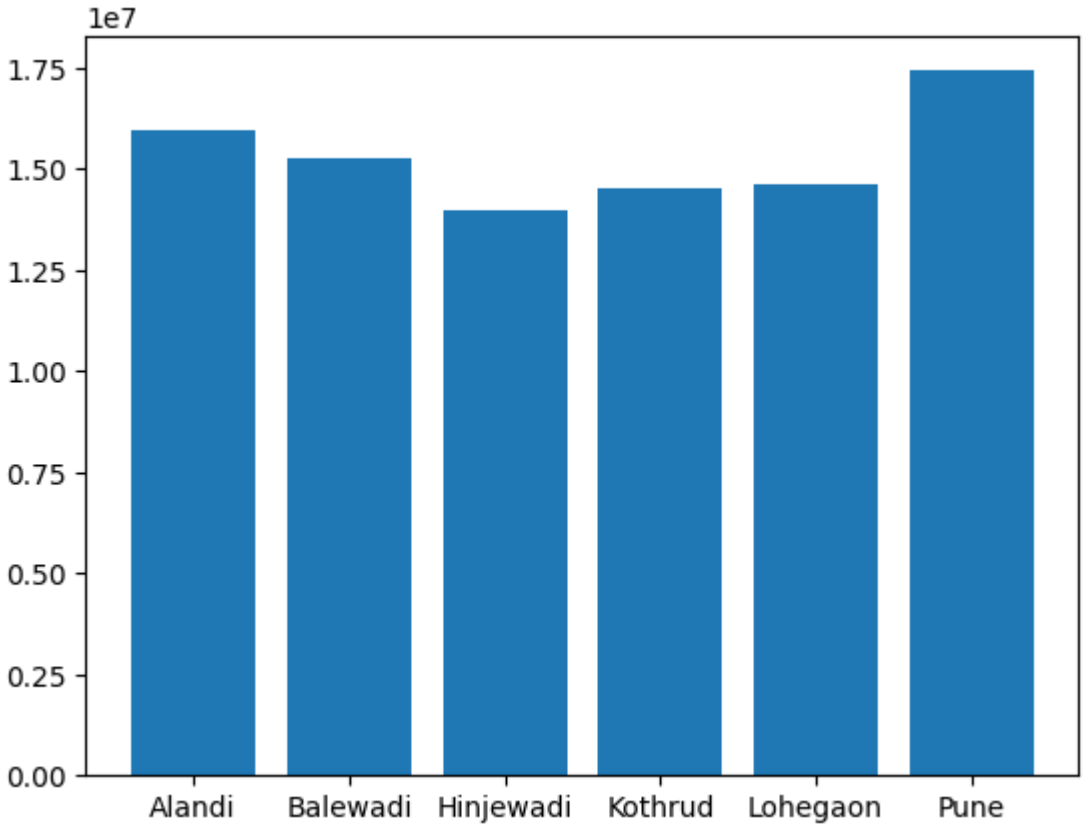
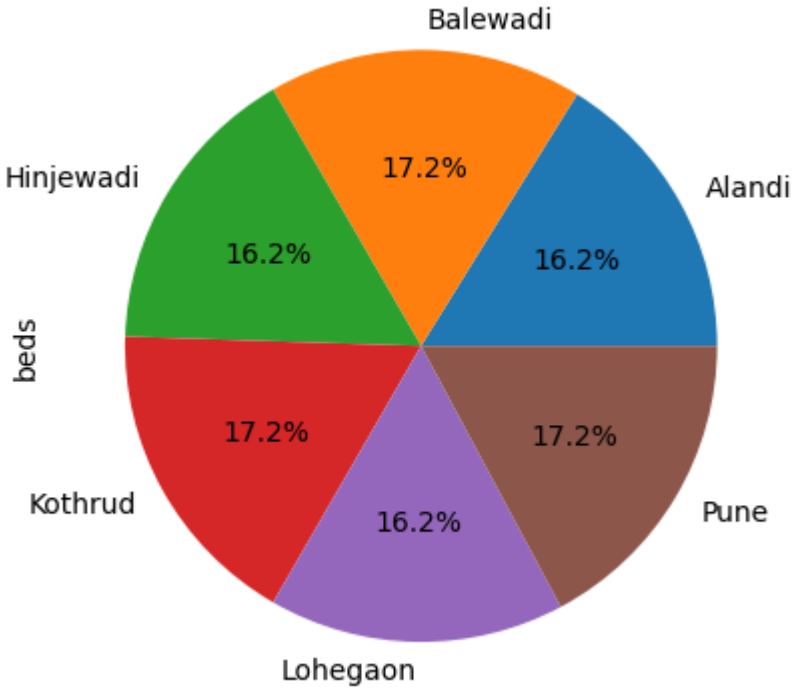




```
import pandas as pd
import matplotlib.pyplot as plt
t1 = pd.read_csv("/content/house - Copy.csv")
t1 =df.groupby("Location").count()
t1["beds"].plot(kind="pie",autopct='%1.1f%%')
print(t1)
```

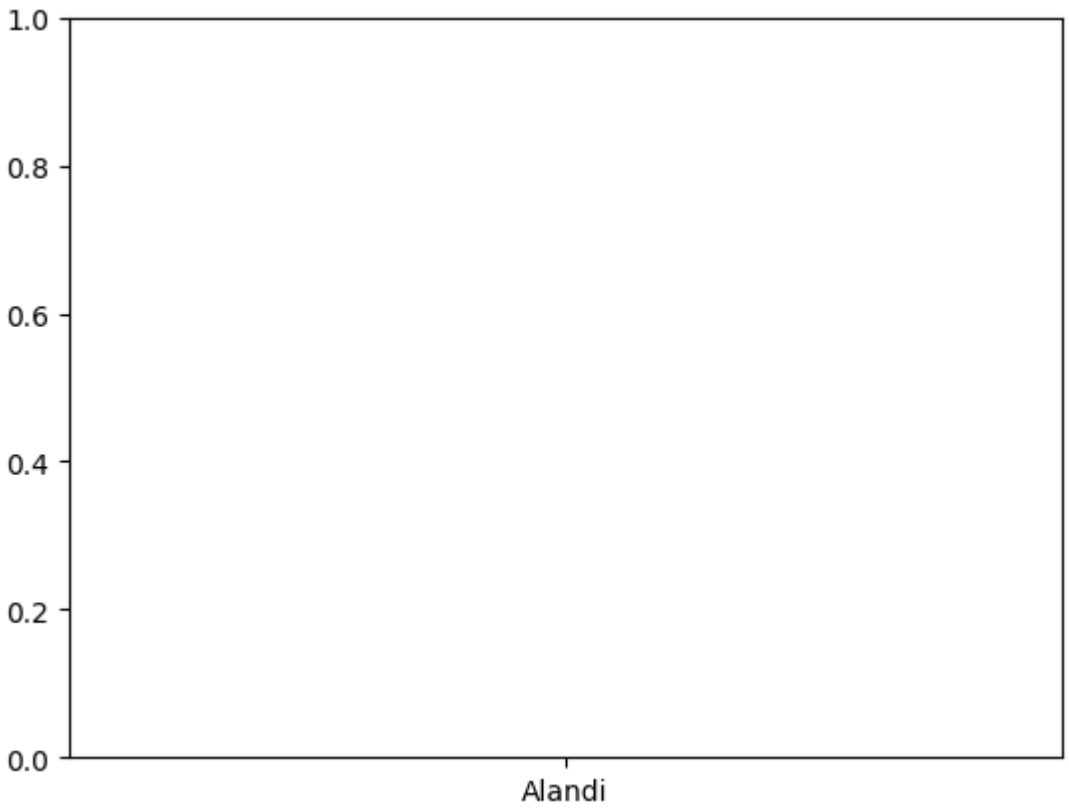
```
beds baths size size_units lot_size lot_size_units zip_code \ Location Alandi 16 16 16 16 14 14 16
Balewadi 17 17 17 17 15 15 17 Hinjewadi 16 16 16 16 15 15 16 Kothrud 17 17 17 17 16 16 17 Lohegaon 16
16 16 16 12 12 16 Pune 17 17 17 17 13 13 17 price Location Alandi 16 Balewadi 17 Hinjewadi 16 Kothrud
17 Lohegaon 16 Pune 17
```




```
import matplotlib.pyplot

df = pd.read_csv("/content/house - Copy.csv")
df1 =df.groupby("Location").count()
print(df1)
plt.hist(df1.index,df1['beds'])
```

```
plt.show()
```

beds baths size size_units lot_size lot_size_units zip_code \ Location Alandi 16 16 16 16 14 14 16 Balewadi 17 17 17 17 15 15 17 Hinjewadi 16 16 16 16 15 15 16 Kothrud 17 17 17 17 16 16 17 Lohegaon 16 16 16 16 12 12 16 Pune 17 17 17 17 13 13 17 price Location Alandi 16 Balewadi 17 Hinjewadi 16 Kothrud 17 Lohegaon 16 Pune 17

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<ipython-input-29-c7f790eaf90d>:3: FutureWarning: The default value of numeric_only in DataFrameGroupBy.sum is deprecated. In a future version, numeric_only will default to False. Either specify numeric_only or select only columns which should be valid for the function.
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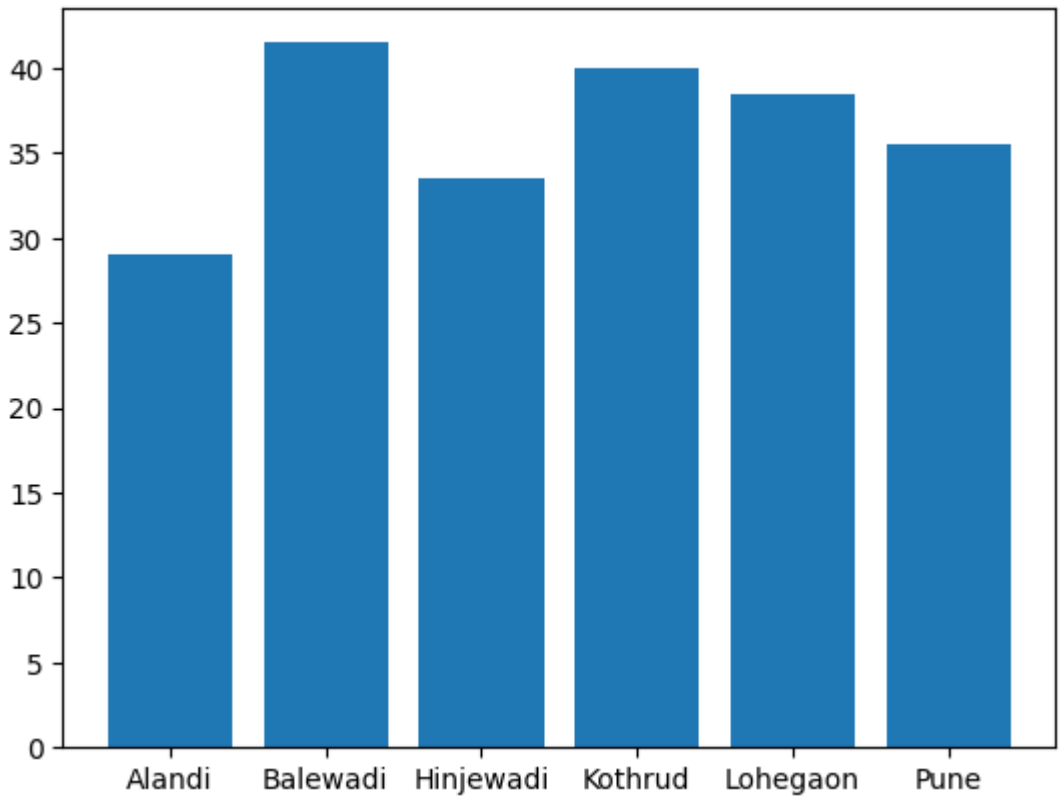


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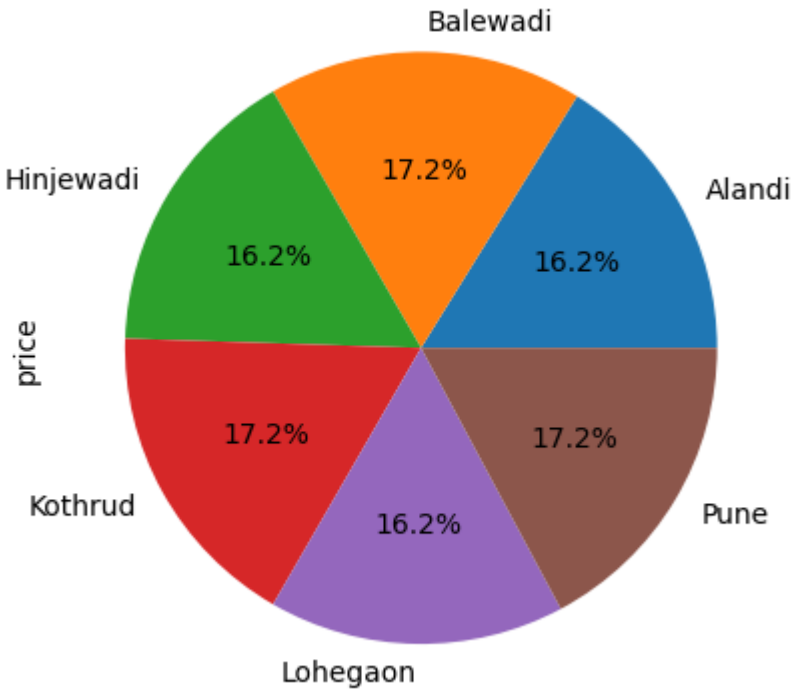
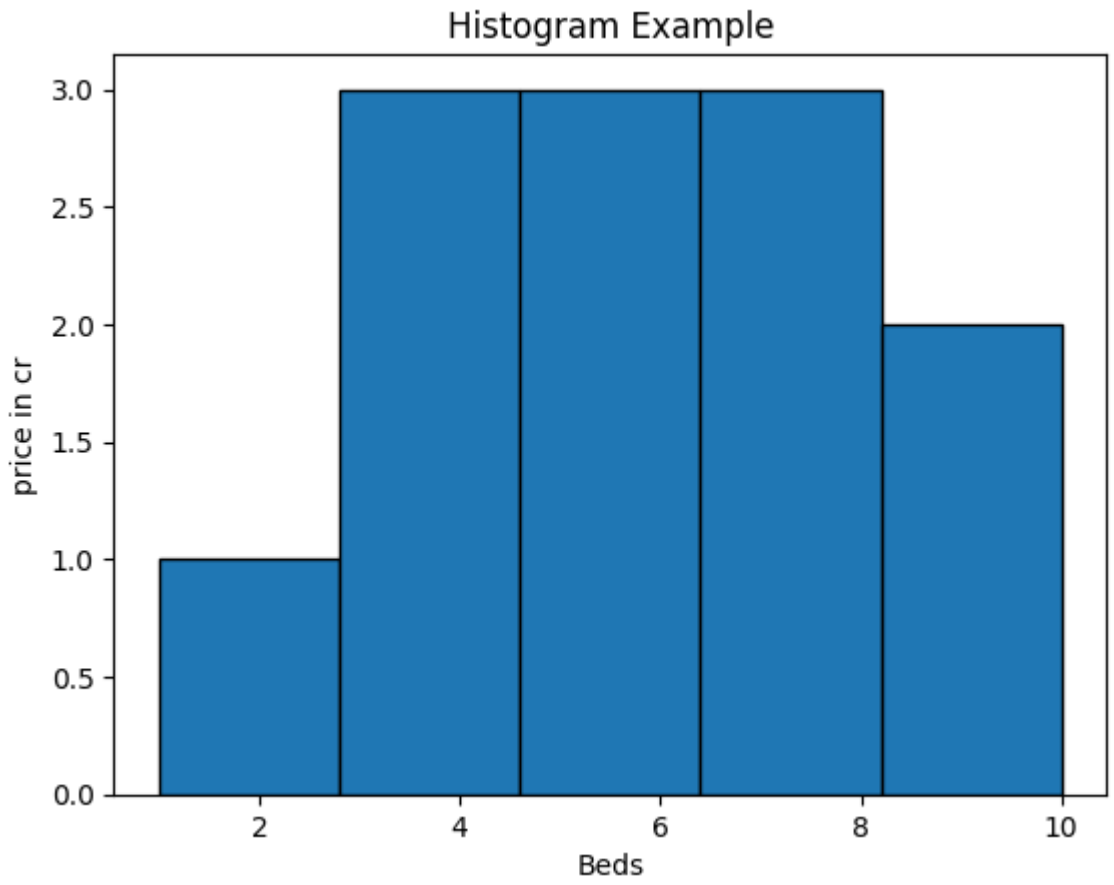
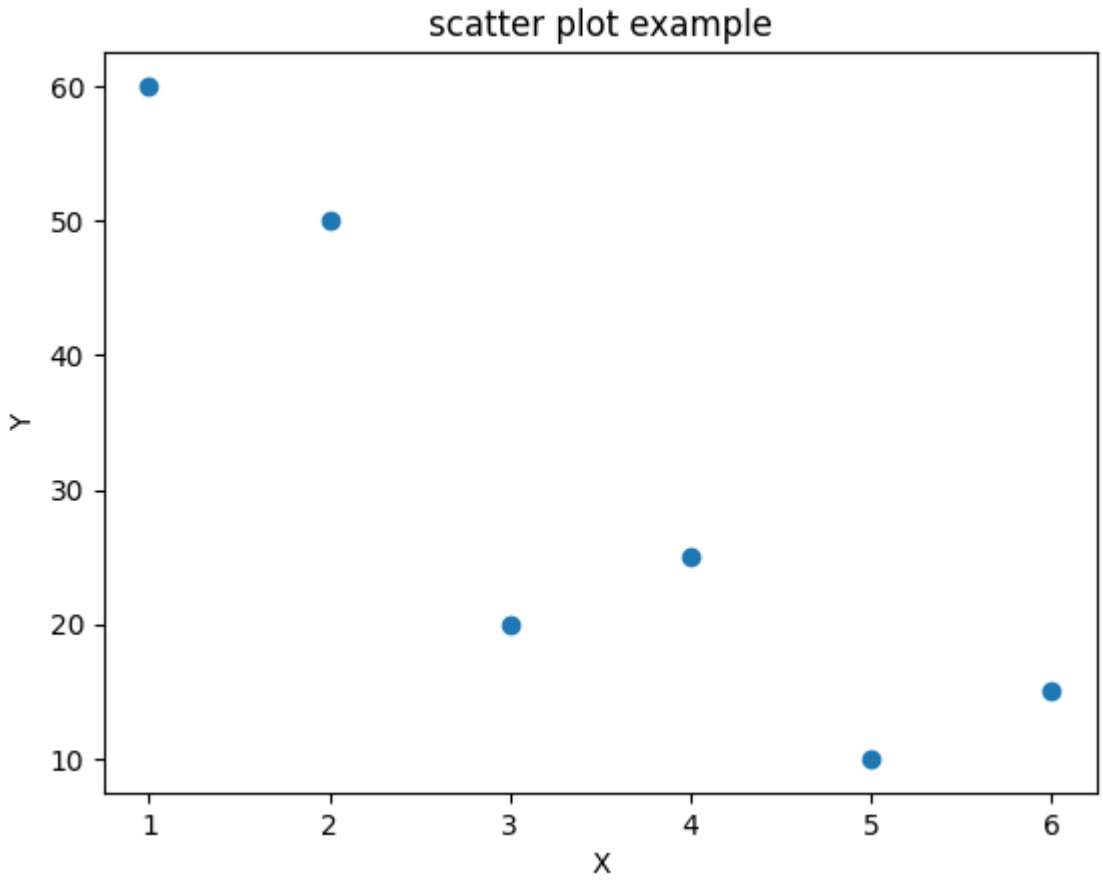
beds baths size size_units lot_size lot_size_units zip_code \ Location Alandi 16 16 16 16 14 14 16 Balewadi 17 17 17 17 15 15 17 Hinjewadi 16 16 16 16 15 15 16 Kothrud 17 17 17 17 16 16 17 Lohegaon 16 16 16 16 12 12 16 Pune 17 17 17 17 13 13 17 price Location Alandi 16 Balewadi 17 Hinjewadi 16 Kothrud 17 Lohegaon 16 Pune 17



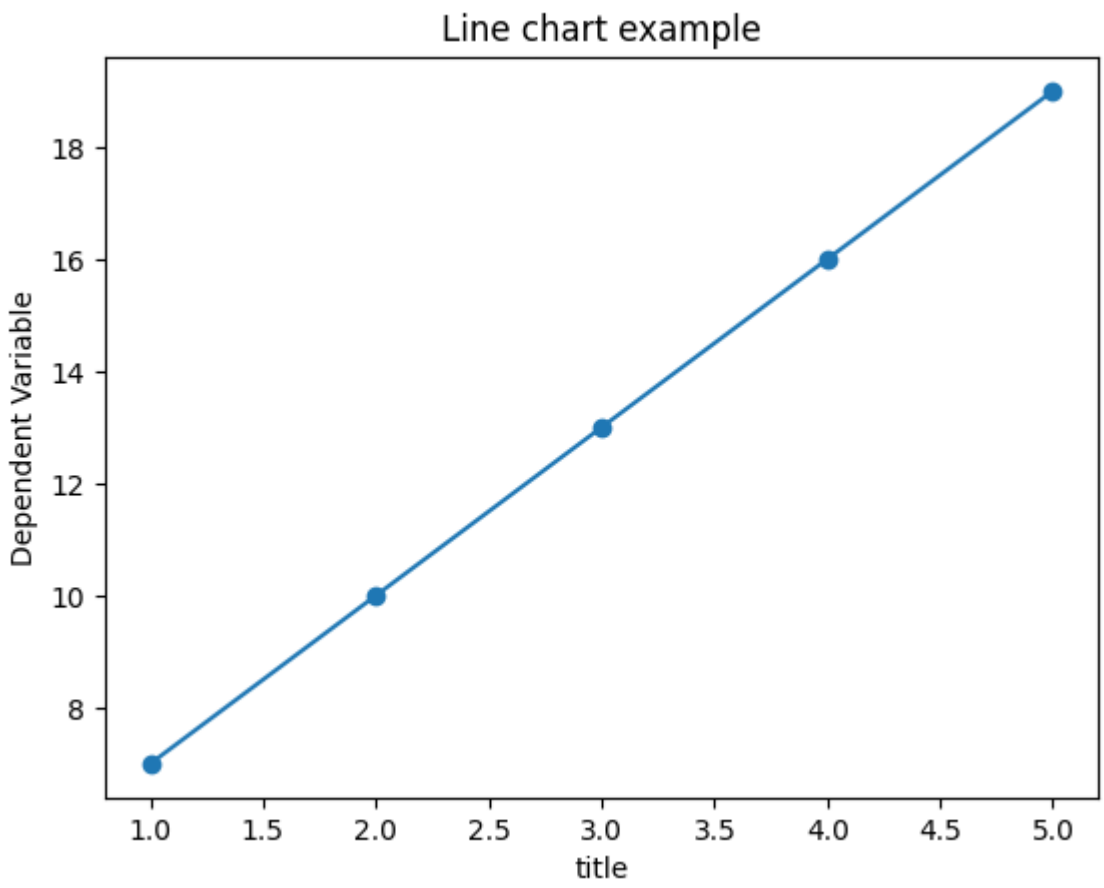

```
import matplotlib.pyplot as plt
data=[1,3,4,4,5,5,6,7,8,8,9,10]
plt.hist(data,bins=5,edgecolor="black")
plt.xlabel('Beds')
plt.ylabel('price in cr')
plt.title('Histogram Example')
plt.show()
```



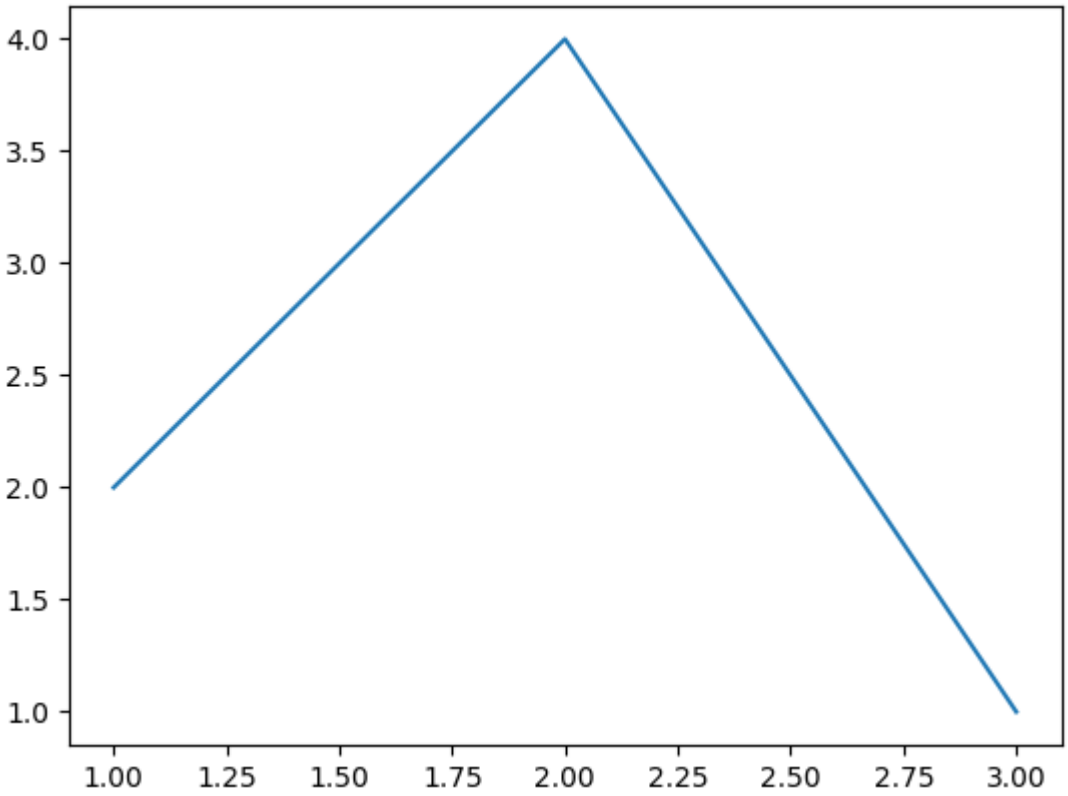

```
import matplotlib.pyplot as plt
x=[5,6,3,4,2,1]
y=[10,15,20,25,50,60]
plt.scatter(x,y)
plt.xlabel('X')
plt.ylabel('Y')
plt.title('scatter plot example')
plt.show()
```




```
import matplotlib.pyplot as plt
x=[1,2,3,4,5]
y=[7,10,13,16,19]
plt.plot(x,y,marker='o')
plt.title("Line chart example")
plt.xlabel("title")
plt.ylabel("Dependent Variable")
plt.show
```




```
import matplotlib.pyplot as plt
x=[1,2,3]
y=[2,4,1]
plt.plot(x,y)
plt.show
```


4.0
3.5
3.0
2.5
2.0
1.5
1.0
1.00
1.25
1.50
1.75
2.00
2.25
2.50
2.75
3.00