In [1]:
```
import pandas as pd
import numpy as np
from scipy import stats
import matplotlib.pyplot as plt
house = pd.read_csv('Machine Learning/Delhi_v2.csv')
house
```

t[1]:

	Unnamed: 0	price	Address	area	latitude	longitude	Bedrooms	Bathrooms	Balcony	Status	neworold	parking	Furnished_status	Lift	Landmarks	type_of_building	desc	Price_s
0	0	5600000.0	Noida Extension, Noida, Delhi NCR	1350.0	28.608850	77.460560	3.0	3.0	NaN	Under Construction	New Property	NaN	NaN	2.0	NaN	Flat	\n\n\n Welcome ...	4148.148
1	1	8800000.0	Sector 79, Gurgaon, Delhi NCR	1490.0	28.374236	76.952416	3.0	3.0	NaN	Ready to Move	New Property	NaN	Semi-Furnished	2.0	NaN	Flat	\n\n\n Mapsko M...	5906.0402
2	2	16500000.0	Vaishali, Ghaziabad, Delhi NCR	2385.0	28.645769	77.385110	4.0	5.0	NaN	Ready to Move	New Property	1.0	Unfurnished	NaN	NaN	Flat	\n\n\n This pro...	6918.2389
3	3	3810000.0	Link Road, F Block, Sector 50, Noida, Uttar Pr...	1050.0	28.566914	77.436434	2.0	2.0	3.0	NaN	New Property	1.0	Unfurnished	2.0	near Gaur Mulberry Mansion	Flat	\n\n\n AIG Roya...	3628.5714
4	4	6200000.0	Jaypee Pavilion Court Sector 128, Noida, Secto...	1350.0	28.520732	77.356491	2.0	2.0	3.0	Ready to Move	Resale	1.0	NaN	3.0	NaN	Flat	\n\n\n The prop...	4592.5925
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
7733	7733	7900000.0	Indirapuram, Ghaziabad, Delhi NCR	1095.0	28.635272	77.370395	2.0	2.0	NaN	Ready to Move	Resale	NaN	NaN	NaN	NaN	Flat	\n \n \n...	7214.6118
7734	7734	4510000.0	Greater Noida, Sector 2, Greater Noida, Delhi NCR	1060.0	28.581431	77.452819	2.0	2.0	3.0	NaN	Resale	NaN	Semi-Furnished	NaN	ek murti chowk	Flat	\n \n \n...	4254.7169
7735	7735	7000000.0	Crossings Republik, Ghaziabad, Delhi NCR	1898.0	28.625850	77.435336	4.0	3.0	5.0	Ready to Move	Resale	NaN	NaN	NaN	NaN	Flat	\n \n \n...	3688.0927
			Raj Nagar															

7736	7736	6500000.0	Extension, Ghaziabad, Raj Nagar Exte...	1400.0	28.701622	77.430153	3.0	3.0	2.0	Ready to Move	Resale	1.0	NaN	3.0	vvip mall	Flat	\n \n \n...	4642.857
7737	7737	6500000.0	sandal apartment, Shalimar Garden Extension 1,...	1750.0	28.693590	77.344376	3.0	2.0	3.0	Ready to Move	New Property	NaN	NaN	NaN	NaN	Flat	\n	3714.285

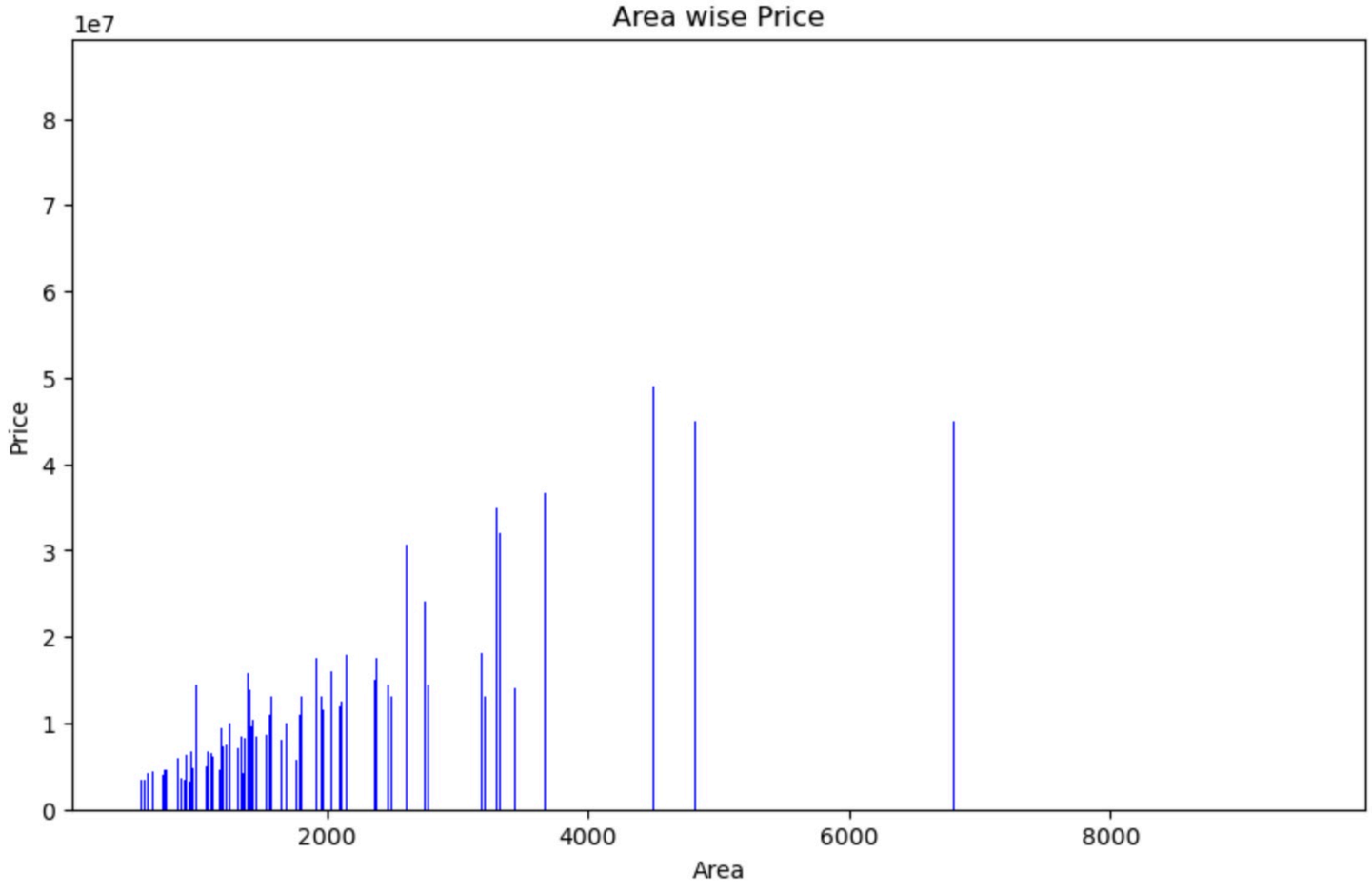
7738 rows × 18 columns

In [2]:
```
house.head()
```

Out[2]:

	Unnamed: 0	price	Address	area	latitude	longitude	Bedrooms	Bathrooms	Balcony	Status	neworold	parking	Furnished_status	Lift	Landmarks	type_of_building	desc	Price_s
0	0	5600000.0	Noida Extension, Noida, Delhi NCR	1350.0	28.608850	77.460560	3.0	3.0	NaN	Under Construction	New Property	NaN	NaN	2.0	NaN	Flat	\n\n\n Welcome ...	4148.148
1	1	8800000.0	Sector 79, Gurgaon, Delhi NCR	1490.0	28.374236	76.952416	3.0	3.0	NaN	Ready to Move	New Property	NaN	Semi-Furnished	2.0	NaN	Flat	\n\n\n Mapsko M...	5906.040
2	2	16500000.0	Vaishali, Ghaziabad, Delhi NCR	2385.0	28.645769	77.385110	4.0	5.0	NaN	Ready to Move	New Property	1.0	Unfurnished	NaN	NaN	Flat	\n\n\n This pro...	6918.238
3	3	3810000.0	Link Road, F Block, Sector 50, Noida, Uttar Pr...	1050.0	28.566914	77.436434	2.0	2.0	3.0	NaN	New Property	1.0	Unfurnished	2.0	near Gaur Mulberry Mansion	Flat	\n\n\n AIG Roya...	3628.571
4	4	6200000.0	Jaypee Pavilion Court Sector 128, Noida, Secto...	1350.0	28.520732	77.356491	2.0	2.0	3.0	Ready to Move	Resale	1.0	NaN	3.0	NaN	Flat	\n\n\n The prop...	4592.592

In [3]:
```
plt.figure(figsize=(10, 6))
plt.bar(house['area'], house['price'], color='blue')
plt.title('Area wise Price')
plt.xlabel('Area')
plt.ylabel('Price')
plt.show()
```



In [4]:
```
plt.figure(figsize=(10, 6))
plt.plot(house['area'], house['price'], marker='o', linestyle='-', color='blue', label='Price vs Area')
plt.title('Area vs Price')
plt.xlabel('Area')
plt.ylabel('Price')
plt.show()
```