mean Marane.	3000	Apathut homean Variance
117七1	0,84e 0 440945	100al Price 11:332
0 3 3 3	908°0	Bathrooms 1285 0.2755
6.0246	4335	6.1038 6.1038
1901t.o	288°0	64th.0 5051 5051 50my
6.0246 1.553 1.333 5.3465 0.71061 0.2272	0009°C	9a1ages
6.8333	18ct o 8ct/10	1.52 -1 1.53 -9 1.53 -9
0.555	15.38°0	Bedwom Age 3.4285 38.714
39.667	Stron 25th 88. 12 Mon 22th	t was boad the

Using gaussian to Fird conditional distribution of all Features
given the class (Apartment).

Using the example from test data: Local Rice = 6.0931 bedrooms=3 bathrooms=1.5

land area = 6.7265

Living area = 1.652

garages = 1

(2)
$$P(Bathroms | Apartment) = \frac{1}{2\pi I (0^2)} = \frac{1}{2(0^2)} = \frac{1}{2(0^2)} = \frac{1}{2(0 \cdot 2 + 55)} = \frac{1}{2\pi I (0 \cdot 2 + 55)}$$

(6) P(garages | apartment) =
$$\frac{1}{2(0.4183)}$$
 = $\frac{1}{211(0.4183)}$

P(Rooms | apartment) =
$$\frac{1}{\sqrt{2\pi(0.55)}} = \frac{-(\frac{3}{20.8571})^{2}}{2(1.55)}$$

P(bedrooms | apartment) = $\frac{1}{\sqrt{2\pi(0.8163)}} = \frac{-(\frac{3}{20.8163})^{2}}{-(0.8163)}$

P(Age | apartment) = $\frac{1}{\sqrt{2\pi(0.8163)}} = \frac{-(\frac{44}{20.8163})^{2}}{2(1.84.74551)}$

Finding the mean and variance of:

Weal Price given Apartment

This Is how I calculate the mean and variance or conditional Rob.

Mean = 4.9176 + 4.5573 + 5.0597 + 14.4598 + 5.05 +8.24647

9.0384

= 7.332

Variance =

 $(4.9176-7.332)^{2} + (4.5573-7.332)^{2} + (5.0597-7.332)^{2} +$ $(14.4598-7.332)^{2} + (5.05-7.332)^{2} + (8.2464-7.332)^{2} +$ $(9.0384-7.332)^{2}$

7.332-1

= 11.2075