		Dorlase	e Tw	eignt	price	-			
		- ·	La A	2	35				فر
		_	2	4	60				
			3	5	20	3			1
			4	3	50				
		,	5	6	50				
			6	5	55	/			
			7	7	60			7 4	
						Zett/	predict	ripyth	ron:
Ś	X	7	XT	22		Jon'	-7i -7i		
1	2	35	70	4		Jon'	32.857		
2	4	60	240	16.		Jon ³	38.571		4
3	5	20	100	25		70N 8	52.857		1
4	3	50	150	9		Jon 10	58.571	-	
5	6	50	300	36				+	
6	5	55	275	25					
7	7	60	420	49					
	x=32	7=330		x=164	Ye		•		
ห์	=32/	7=330	17.		_				y.
	=4.57	1.7	143	(2 ⁻)=	23.43				
			- W	¥ 71					
6	5=(4,5	71)2	77-155						
	= 20	.89	X7=155	55/7					
	•		= 27	22.643					

$$= \frac{4.571 \times 47.143 - 222.142}{20.894 - 23.43}$$

$$=\frac{-6.651}{-2.536}$$

$$m = 2.623$$

neg.coef 1

m= coefficient

C=7-m= = 47.143-2.623 x 4.571

7 = mx+ c=

for weight= 6; 7= mx+e

m= 2.623

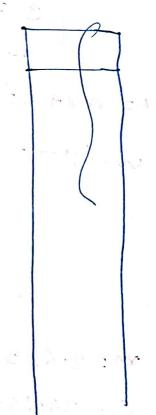
7= 50.891

	Actual	predicted	R=-11-ni
	$\forall i$	1i	Residuals
1	35	40.399	-5.399
2	60	45.645	14.355
3	20	48.268	-28.268
4	50	43.022	6.978
5	50	50.891	-0.891
6	55	48.268	6.732
7	60	53.514	6.486
	41=330	71=330,007	

Mean Absolute Erron (MAE)

Mean squared Ermon (BUSE)

$$MSE = \frac{1}{n} \sum_{i=1}^{n} (7i - 7i)^2$$



$$= \frac{\left|-5.399\right|+14.355+\left|-28.268\right|+6.978+\left|-0.891\right|+6.732+}{6.484}$$

$$=\frac{69.109}{7}$$

Mean squarred Ernon,

$$=\frac{\left(-6.399\right)^{2}+\left(14.355\right)^{2}+\left(-28.268\right)^{2}+\left(6.978\right)^{2}+\left(-0.891\right)^{2}+\left(6.432\right)^{2}+\left(6.486\right)^{2}}{7}$$

W

```
# Best fit line
         plt.plot(xtest,pred)
[108]
     [<matplotlib.lines.Line2D at 0x12245862e60>]
</>
       44
       42
       40
       38
       36
          20
                  25
                         3.0
       plt.plot(xtest,pred)
       plt.scatter(x,y)
       plt.xlabel("weight")
       plt.ylabel("price")
```

