Joy Madubber 20-41959-1

Section = [0] Sercial = 07

## Assignment-04

1	- CANAL MARKET				
	, ×	7	×y	×2	32
	11.8	30.4	122.72	139.24	108.16
	12.5	16.5	206.25	186.26	272.25
L	15.7	22.9	359.53	246.69	524.41
	19.2	₹6.6	510.72	368.64	707.66
1	21.9	33.8	740.22	479.61	1142.44
4	≥3.3	42.8	997.24	542.89	1831.84
1	Ex=104.4	2 = 153	Exy =2936.68	2x2=1933.12	2y=4586.66
				12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

(a) 
$$gs(x) = \xi x^{2} - \frac{(\xi x)^{2}}{n} \frac{109.49^{2}}{109.49^{2}} = \frac{116.56}{109.49^{2}} = \frac{116.56}{n} = \frac{11$$

NOW.

$$R = \frac{5P(\pi Y)}{\sqrt{55(\pi)55(Y)}} = \frac{374.48}{\sqrt{116.56} \times 685.16} = 0.97$$
Inflaction nate(x) and lending note(x) are positivly correlated

Test statistie.

$$\frac{1}{1-1} = \frac{1}{1-1} = \frac{1}$$

Since |t|> In-2 = 2,776

50, Hois Rejected,

we can conclude that landing rate of the inflation reate is not simpnificantly correlated.

Now, 
$$b = \frac{5p(xy)}{59(x)} = \frac{274.48}{116.56} = 2.35$$

$$= \frac{163}{6} - 2.36 \left( \frac{(104.4)}{6} \right)$$

$$= -15.39$$

Fitted line 9 = atox = - 15.39 +2.35 x

$$\begin{array}{l}
\text{Then, } \vec{y} = 25.5 \\
\text{Then, } \vec{y} = -15.80 + 2.35 (25.5) \\
= -15.39 + 59.02 \\
= 44.535
\end{array}$$

= 
$$44.535$$

We need to test to:  $\beta = 6$  Vs H1:  $\beta \neq 0$ 

Test statistic  $t = \frac{b}{\sqrt{\frac{5^{\prime}}{55(x)}}} = \frac{2.95}{\sqrt{\frac{(i0.02)^{\prime}}{116.66}}} = 2.52$ 

$$NOW_{5} = \frac{65(4) - 65P(24)}{97-2} = \frac{685.16 - 2.35(274.48)}{6-2}$$

since It/ Ltn-2; 50 to is Accepted.

Here the regression is significant.