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Somal No: 17

Avoignment-4

11/10

Solution

	4	2 ny	12/2	44
11.8	10.4	122:32	139.24	108.16
12:5	16.5	206-25	156.25	272:25
15.7	22.9	350.53	246.49	52441
19.2	26.6	510.72	368.64	707.56
21.9	33-8	740.22	479.61	1142.44
23.3	42.8	997.24	542'89	1831.34
Ex = 104-4	2y 215 3	4242236.	イッショ1933-	4586-66

$$= 1933 \cdot 12 - \frac{(27)^{3}}{4}$$

$$= 1933 \cdot 12 - \frac{(04.4)^{3}}{6}$$

$$= 116.56$$

2

 $35(y) = 2y^{2} - (2y)^{2}$ $= 4586.66 - (15.3)^{2} = 685.15$ $5P(ny) = 2ny = -\frac{2n2y}{n} = 2936.68 - (104.4)x(15.5)$ = 274.48 7 = 5P(ny) = 274.48 $7 = \sqrt{55(n)} \times 55(y) = \sqrt{116.56} \times 685.15$ = 0.9713

b) $H_0: P = 0 VS H_1: P \neq 0$ $+ 2 \frac{v \sqrt{v-2}}{\sqrt{1-v^{2}}} = \frac{0.07 \sqrt{6-2}}{\sqrt{1-(0.99)^{15}}}$ = 8.162 > 4

We conclude that inflation rate is significantly correlated with the lending nate.

9)
$$b = \frac{8P(ny)}{55(N)} = \frac{274.48}{116.56} = 2.35$$

 $a = \frac{27}{5} = -b = \frac{27}{5} = \frac{153}{6} + 2.35 = \frac{104.4}{4}$ = 15.4747

j = atbnz - 15.4747 + 2.0000 3600

d) lending nate when the inflation vate will be 25.5

State will be 25.5

It x £ 25.5, then g = -15.5644

(2.35 x 2.35)

= 44.474

e) We need to test thoo: B=0 vs H1: B =0 test static

= 1002Ba29188

3 0 7

Regnession is significant. (31 19) - 91 93 39 + (Rich) de 9 - (R) 99