Final Assignment 4 Servial: 3 Name: Khan, Md. Shavim Masud

ID: 18-36264-1

Section: O

11.11			χ <sup>V</sup>	7~
7	7	24	139.24	108.16
11.8	70.4	122.72	156.25	272.25
12.5	16.5	206.25	246.49	524.41
15.7	22.9	359.53	368.64	707.56
19.2	26.6	510.72	479.61	1142.44
21.9	23.8	740.22	542.89	1831.84
28.3	42.8	997.24	. V.	33.12 273
In=104.4	Zy = 15	53 Eny > 2986		

SS (Y) = 
$$\xi$$
 y  $= (\xi$  y  $)$  SP (NY) =  $\xi$  NY  $= \xi$  N  $\xi$  Y  $= \xi$  N  $\xi$  Y  $= \xi$  N  $\xi$  Y  $= \xi$  N  $\xi$  NY  $= \xi$  NY

The correlation between variable (x) and (y)
is strongly positive.

Performing hypothesis test

Her=0 against HA: 
$$P \neq 0$$
  
to  $\frac{R\sqrt{N-2}}{\sqrt{1-R^{N}}}$  ~ th-2  
 $\frac{.98\sqrt{6-2}}{\sqrt{1-(0.98)^{N}}}$ 

9.84

. 1+1> t(n-n)=4; thus Ho In negected.

© filling regression line of 
$$70 \text{ n}$$
  
 $a = 9 - b\bar{n} = \frac{zy}{n} - b \frac{4n}{n}$   
 $= \frac{153}{6} - b \frac{1044}{6}$   
 $= \frac{35(n)}{35(n)} = \frac{274.48}{116.56}$   
 $= 2.36$ 

From (i) =>
$$a = \frac{153}{6} - (2.36) = \frac{104.4}{6}$$

$$= -15.564$$

Fitted line: 9 = -15.564 +2-362

1 Lending nate when the inflation pate will be 25.5

a If n = 25.5, then g = -15.564 + (2.5)

@ we need to test Ho: B=6 vs H1: B+6

test static.

$$S^{N} = \frac{SS(4) - bSP(NY)}{M-2} \frac{685.16 - (2.36 \times 274.18)}{6-2}$$