(Lect v de Noi-18) (01/11/23) 7; - Bo + Bo + Bo (2) + Ci Defendent Independent Vanable Vanable (avantitative) (avantitative) The y avalitatile/categorial Independent Variables) (i) Qualitative X vanable Binary Categones)

Deflendent Van able. Gender - Catelly nac Vando Mage(Rs) = 20,000-3500 femile male female.

Nate (RS) = RS, 20,000. Intercept Value

This is actually the Merge Waze of A -3500 mans that the L'emple will carn on avergers) on less than the averge male Income. (i) (Q Valitative X) Vanioble with K (Megona) SIVITA —) Reference Cutogory.

Price = 200-750 East -75 West 2002 Intercept - The average Price in South Zone is \$ 200, no. 502 Houre Price in Last Zone is \$ So, oro higher tan the hove Price in South Zone -75 = Home Price in West Zonc is \$75,000 lower

Han the hove frice in the 50 Nh Zone PA(Tb), Anderson Thanke Dymny Variable Indicator Vinable. 7 - Bo+BX + BX + Ci

7 - 0-93 +0-38 76x,+1-263x Wh Nz-0 (Medanial)) - 0.43 + 0.38 76 1/2 Men Mar) (Flectnig) 7 - 0-93 + 1-38762 + (1-263)). 7 - 2.113 + 0.3876 X, V 1-213 = The electrical refair Will reguire 1-263 hours longer Han

machanial Kepail. 7 - 10.1 - 4-22, +6.822 +15.3 1/2. 9 7 - 11.1 - 4-22, + 6.8 22 + 15.3(1), 5.3 = A Vestanran

having a drive-up Facility will larn

\$ 15300 more Han the restaurant without howing the dnye-of Jaciety N2 = 8,000 $\mathcal{U}_3 = 0$ 7 - D. 1 - 4.22, + 1.823 + 15.322

$$\hat{y}$$
 = $10.1 - 4 - \lambda(\lambda)$
 $+1.8(8) + 15.3(\delta)$
 \hat{y} = 4.56150
 $21 - 1$, $12 - 300 - 3$
 $3 - 1$
 $3 - 1$
 $4 - 8(3) + 15.3(1)$
 $3 - 2 + 4 - 2 + 3 + 15.3(1)$

l: - y: - y: DDDD Estimited Values Values J (y) Kessame Analysis Rogremon Dignistia (1) There should not be anto-Cirolation between the CYSM. The CYMY

Shorld not be COrrolpty (1) (2) (3) ---) (K (2) The Variance of example of ex (3) The Exms Moved be normally distributed Whee though be no Correlation between

the Independent Unishly.
The Independent Unishly
Another Correlated.