Md Ariful Hagus Miah Flipped Assignment 02 PHI 636945 0.008 800.0 2,528 8.208 ear regression model,

(b) E[YIX] = b+ 4x -0.135+1.249x (1) Vax [Y]X] = Vax [Y] = 0 we know that を(グーグ) $6 = MSE = \frac{SSE}{n-1}$ (4-4) 0.130 2.36 0.372 3/61 0.152 3.61 4.86 4.5 0.130 5.49 0.260 4.5

1. 196 = 1.196 = 1.196 = 0.299 N-2 6-2 4 Var [YIX] = Var [Y] = 5 = 0.299 (AN) here, of = n-2 = 6-2=4 $50 f = \frac{b_1 - 0}{\sqrt{\frac{m s E}{2(41 - x)^2}}} - \frac{1.249}{\sqrt{\frac{0.299}{3.208}}} - \frac{1.249}{0.191}$ from R Studio calculation, we get P=0.003 Since P <0.05 So we can reject the hypothesis that B₁ = 0. (a) Since P < 0.05, the regression is significant. - (1) 2) + (1.5 All x 3) + 5+3 (1.3-1) + 5.61.3-

(f) when x=3 Tn-2,0/2 = T4,0.025 = 2.78 (Using) Confidence 95%. confidence Interval Upple bound = -0.135+191.249 x3+2.78 0.299 (1+(3-2.90))= = 4.234 -0.135+1.249×3-2.78, 0.299(2+3.203) - 2.99 (9) p 95% prediction Interval Upper bound -0.135+(1.249 x 3)+2.78 x 0.299 (1+2+(3-291) = 5.255