Seminar 9.
$$6) \times 11 \Rightarrow y \uparrow \hat{\beta},$$

$$c) \times 11/2 \Rightarrow y \uparrow \hat{\beta},$$

$$c) \times 11/2 \Rightarrow y \uparrow \hat{\beta},$$

$$d) \times 11/2 \Rightarrow y \uparrow \hat{\beta},$$

$$g_i = \hat{\beta}, \Delta x_i$$

$$g_i = \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow y \uparrow \hat{\beta}, \Delta x_i$$

$$d \times 1 \Rightarrow$$

1,\hat{\beta}_2 < a1: \&\hat{\beta}_2 \times 1 + \hat{\beta}_2

$$\Delta \log (\hat{y}_i) = \Delta(\hat{\beta}_0 + \hat{\beta}_i, X_i)$$

$$\frac{\Delta \hat{y}_i}{\hat{y}_i} = \hat{\beta}_i \Delta X_i$$

$$\frac{\Delta \hat{y}_i}{\hat{y}_i} = \frac{e(\hat{\beta}_0 + \hat{\beta}_i, X_i)}{e(\hat{\beta}_0 + \hat{\beta}_i, X_i)} - e(\hat{\beta}_0 + \hat{\beta}_i, X_i)$$

$$\frac{\Delta \hat{y}_i}{\hat{y}_i} = e(\hat{\beta}_0 + \hat{\beta}_i,$$

100 (e 0,0 -1) x = (146%) 'n countries where law implemented to 100.0,5 = 90% dŷ; = j, dx,; + 2 j, X,; dx,; j, 70 $\left[d\hat{y}_{i}^{2} = \left(\hat{\beta}_{i} + 2\hat{\beta}_{2} \times_{i}\right) d\times_{i}\right] - \frac{\hat{\beta}_{i}}{2\hat{\beta}_{2}}$ dx_{i}^{2} 1 => y; 1 \(\hat{\beta}_{i} = 1 \) $d\hat{y}_{i} = (\hat{\beta}_{i} + 2 \hat{\beta}_{i} \times x_{ii})$ grade hours stade(t-d)

b) $y:=\beta_0 + \beta_1 X_{11} + \beta_2 X_{21} + \beta_3 X_{11} X_{21} + \beta_4$ $d\hat{y}_{i} = d\left(\hat{\beta}_{0} + \hat{\beta}_{1} \cdot \chi_{i} + \hat{\beta}_{2} \cdot \chi_{i} + \hat{\beta}_{2} \cdot \chi_{i} \times \chi_{2}\right)$ dŷ: = \(\hat{\beta}_1 \cdot d \times_1 \) + \(\hat{\beta}_2 \cdot X_{1i} \cdot d \times_2 \cdot X_{1i} \cdot d \times_2 \cdot X_{2i} \cdot A \times_2 \ $d\hat{y}_{i} = (\hat{\beta}_{i} + \hat{\beta}_{3}(\hat{x}_{2i})) dx_{i} + (\hat{\beta}_{2} + \hat{\beta}_{3}(\hat{x}_{2i})) dx_{i}$ (4) grade + = 7. (x) | 3/2 | X 2i = 0 | X1i = 0