1.

When $X_d = 0 \rightarrow \overline{Y_0} = \hat{\beta}_0 + \hat{\beta}_1 \cdot 0 \rightarrow \overline{Y_0} = \hat{\beta}_0$

When $X_d = 1 \rightarrow \overline{Y_1} = \hat{\beta}_0 + \hat{\beta}_1 \cdot 1 \rightarrow \overline{Y_1} = \overline{Y_0} + \hat{\beta}_1 \cdot 1 \rightarrow \overline{Y_1} - \overline{Y_0} = \hat{\beta}_1$

Consider first the numerator of the slope estimator and using (4)

$$\sum_{i=1} (Y_i - \bar{Y}) X_i = \sum_{(i|X_i=1)} (Y_i - \bar{Y}) \times 1 + \sum_{(i|X_i=0)} (Y_i - \bar{Y}) \times 0$$

$$= n_1 \bar{Y}_1 - n_1 \bar{Y}$$

$$= n_1 \bar{Y}_1 - \frac{n_1^2}{n} \bar{Y}_1 - \frac{n_1 n_0}{n} \bar{Y}_0$$

$$= n_1 \bar{Y}_1 \left(1 - \frac{n_1}{n}\right) - \frac{n_1 n_0}{n} \bar{Y}_0$$

$$= n_1 \bar{Y}_1 \left(\frac{n - n_1}{n}\right) - \frac{n_1 n_0}{n} \bar{Y}_0$$

$$= \frac{n_1 n_0}{n} \bar{Y}_1 - \frac{n_1 n_0}{n} \bar{Y}_0 = \frac{n_1 n_0}{n} (\bar{Y}_1 - \bar{Y}_0)$$

where we used the fact that $n - n_1 = n_0$

Before turning to the denominator, notice

$$\bar{X} = \frac{1}{n} \sum_{i=1} X_i = \frac{1}{n} \sum_{(i|X_i=1)} X_i + \frac{1}{n} \sum_{(i|X_i=0)} X_i = 0 + \frac{n_1}{n}$$

Consider the denominator of the slope estimator

$$\sum_{i=1} (X_i - \bar{X}) X_i = \sum_{(i|X_i=1)} (X_i - \bar{X}) \times 1 + \sum_{(i|X_i=0)} (X_i - \bar{X}) \times 0$$

$$= \sum_{(i|X_i=1)} (1 - \bar{X})$$

$$= n_1 \left(1 - \frac{n_1}{n}\right) = n_1 \left(\frac{n - n_1}{n}\right) = \frac{n_1 n_0}{n}$$

Joining numerator and denominator we obtain

$$\hat{\beta}_1 = \frac{\sum_{i=1}^n (Y_i - \bar{Y}) X_i}{\sum_{i=1}^n (X_i - \bar{X}) X_i} = \frac{\frac{n_1 n_0}{n} (\bar{Y}_1 - \bar{Y}_0)}{\frac{n_1 n_0}{n}} = \bar{Y}_1 - \bar{Y}_0$$

We then can use this to find the intercept estimator by using (4)

$$\hat{\beta}_0 = \bar{Y} - \hat{\beta}_1 \bar{X}$$

$$= \frac{n_1}{n} \bar{Y}_1 + \frac{n_0}{n} \bar{Y}_0 - \frac{n_1}{n} (\bar{Y}_1 - \bar{Y}_0)$$

$$= \frac{n_1}{n} \bar{Y}_1 + \frac{n_0}{n} \bar{Y}_0 - \frac{n_1}{n} \bar{Y}_1 + \frac{n_1}{n} \bar{Y}_0$$

$$= \frac{n_0 - n_1}{n} \bar{Y}_0 = \bar{Y}_0$$

2. (correct)

For i=3 and t=1: $Y_{3,1} = \beta_1 X_{3,1} + \alpha_3 + \lambda_1 + u_{3,1}$ Slope= β_1 Intercept= $\alpha_3 + \lambda_1$

For i=5 and t=2: $Y_{5,2} = \beta_1 X_{5,2} + \alpha_5 + \lambda_2 + u_{5,2}$ Slope= β_1 Intercept= $\alpha_5 + \lambda_2$

3. (correct) This regression will not be reliable as it violates the LSA's first assumption. Assumption #1 states that there can't be any feedback onto the future. In this case, we can't use past earnings (Y_{t-1}) as an explanatory variable for future earnings ($X_{t,2}$).

4. a) (correct)

$Y_{i1} = \beta_1 x_{i1} + \alpha_i + \lambda_1 + u_{i1}$

$Y_{i2} = \beta_1 x_{i2} + \alpha_i + \lambda_2 + u_{i2}$

$Y_{i2} - Y_{i1} = \beta_1 (x_{i2} - x_{i1}) + (\lambda_2 - \lambda_1) + (u_{i2} - u_{i1})$

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Albert A Gayle

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