Submission due on 30the April, 2025 (5PM)

Q1. From the following data on Y and X, calculate the coefficient of X if Y is regressed over X.

X	1	7	9	4	11	8	6	3	12
Y	12	Last digit of your roll number	11	Your midesm marks in this course	23	6.5	12	11	16

Q2. Calculate the 't-statistic' of the intercept term for the regression in Q1. Is it significant? Also, comment on the value of adjusted R-square of the model.

Q3. If all values of Y are increased by 10 units in Q1 then what will happen to standard error of the intercept term in the model where Y is regressed over X. Compare with the intercept term of the similar regression in Q1.