Som 19/3/25 Build Sogist regression model Consider a sensing along est son problem we we won to predict whether a student will port or fall band on steel study bours. The logistic regression model hos ben tound; and the seared parameters are as c -s (enercept) 4 9, -0.8 (conflicient of study bains) a- write The logerthe regression " egy for Ithe problem 6- calc > For given daga X (salue) Y (weeks) For the later states Appley linear stegresion well admoss and marde methods and predet for Case when X=5

1 Regular import porder or top pd infort most numpy as up x reduce [1,2,3,4] y- dalues = [-2, 9, 5, 9] of = pd. Do a Frame ( xx - walner , y y - waln) x=d[C'x']. g = of C. A. 1 ne - mean = re . mean() y- man = y. mean() numerator = (( u- n-mean) \* (y- y-mean). sem denomination = . C ( n - n - mean) \*\* 2 ) seine . 61 - menon denomination 60: y-mean - (61 \* x mean). print ("Seope (61);" 61) print ("Inversely" (60)" , 60) 1- new = 5 y-predicted = 60 + (61 x x news) prent (" predicted value for x = s:" J- predicted

