wester Blood glucose levels for obese patients have a mean of 100 will reardard deviation of 15. A researcher thinks that a diet high in raw countwich will have a positive effect on blood glucose flevel A sample of 36 patients who have tried the raw cornitaril diet have a mean glucool level of 108. Test the hypotherin Ital the raw commtand had an effect er not. Ho (Null Hypotherin). M=100 i.e. cor raw corntarch will have no effect on blood glucae level HI (Alternative Hypotheri): 12 100 i.e. raw countoral will have rootive effect on blood glucone level Let us take significance level as 0'05 or 95% confider interval. Here, Mean = M=100 Sample Mean = 1 = 108 Sample 12e = n = 36 Populatin Standard Deviatin = J= 15 Hence $z = \frac{x - \mu}{5/\sqrt{n}} = \frac{108 - 100}{45/\sqrt{36}} = \frac{8}{15/\sqrt{6}} = 3.2$ Probability (Z/32) = 1-Probability of (Z(32) -1-0'9993=0'0007 As 0:0007 Losignificae level 0:05, Hence we reject the Null Hypothesis, i.e. raw constant will have positive Null Hypothesis, i.e. raw constant will have positive