Assignment 9.1 1 claim is 4 2 10,000 hrs Sample size = h = 30mean of dample $\bar{x} = 9,900 \text{ hrs.}$ Assumate pulation S. D $\sigma = 120 \text{ hrs.}$ level of eignificance d = 0.05: $\bar{x}_{\infty} = -1.645$ de population S.D is known we use

Sal atalistic 2 = (\overline{x} - 40) - -100 - -4.56

5/\sqrt{n}. 120/\sqrt{30} Non null htypothesis Ho = U S 10,000 hrs. Alternate Hypothesis HI = W > 10,000 hrs · as $2 \le 2 \le 2$ we origed to I accept H dample size h = 51 cookies mean of sample $\bar{x} = 2.1$ grams. Sample standard deviation s = 0.3 gm letter of significance x = 0.05: $z_d = 1.645$ Here null Hypothesis Ho = 472 gme Atternate Hypothesis Hi = 4 2 gms dince populationSD u is unknown que use Just statestie z = (8-40) = (21-2) = 0.1×161-2.380 as 2 > 24 we reject the & accept +1 11. There is almost to 2 g mi of fate