DAILY ASSESSMENT

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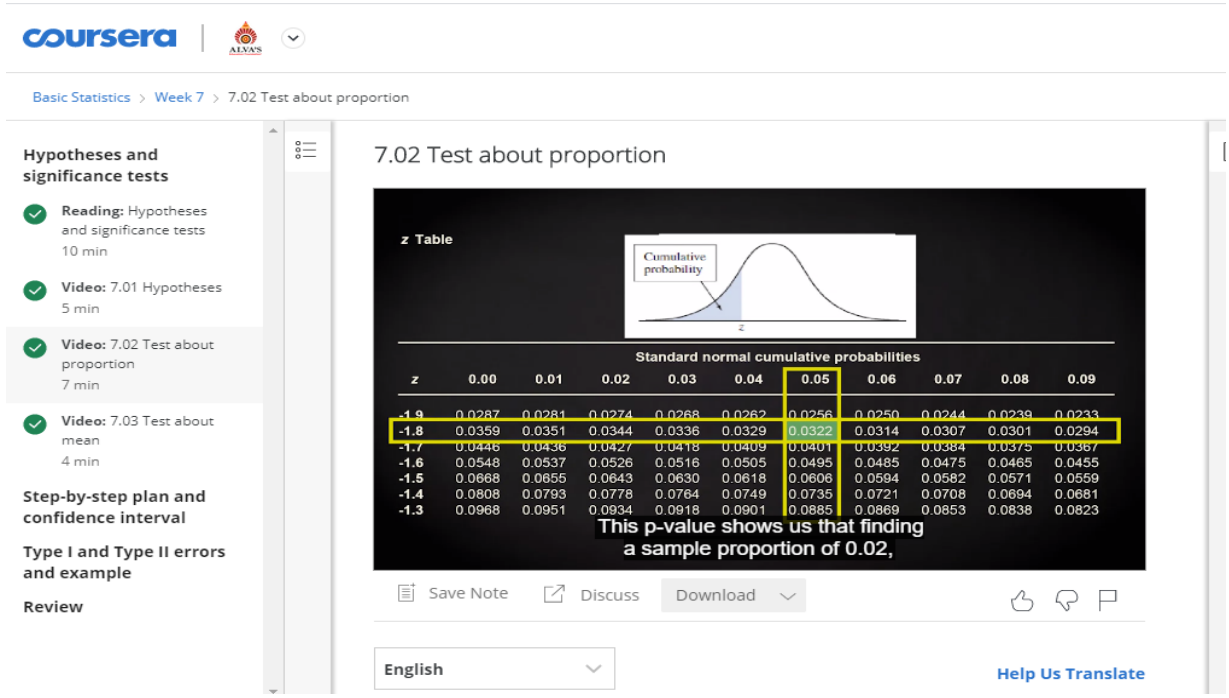
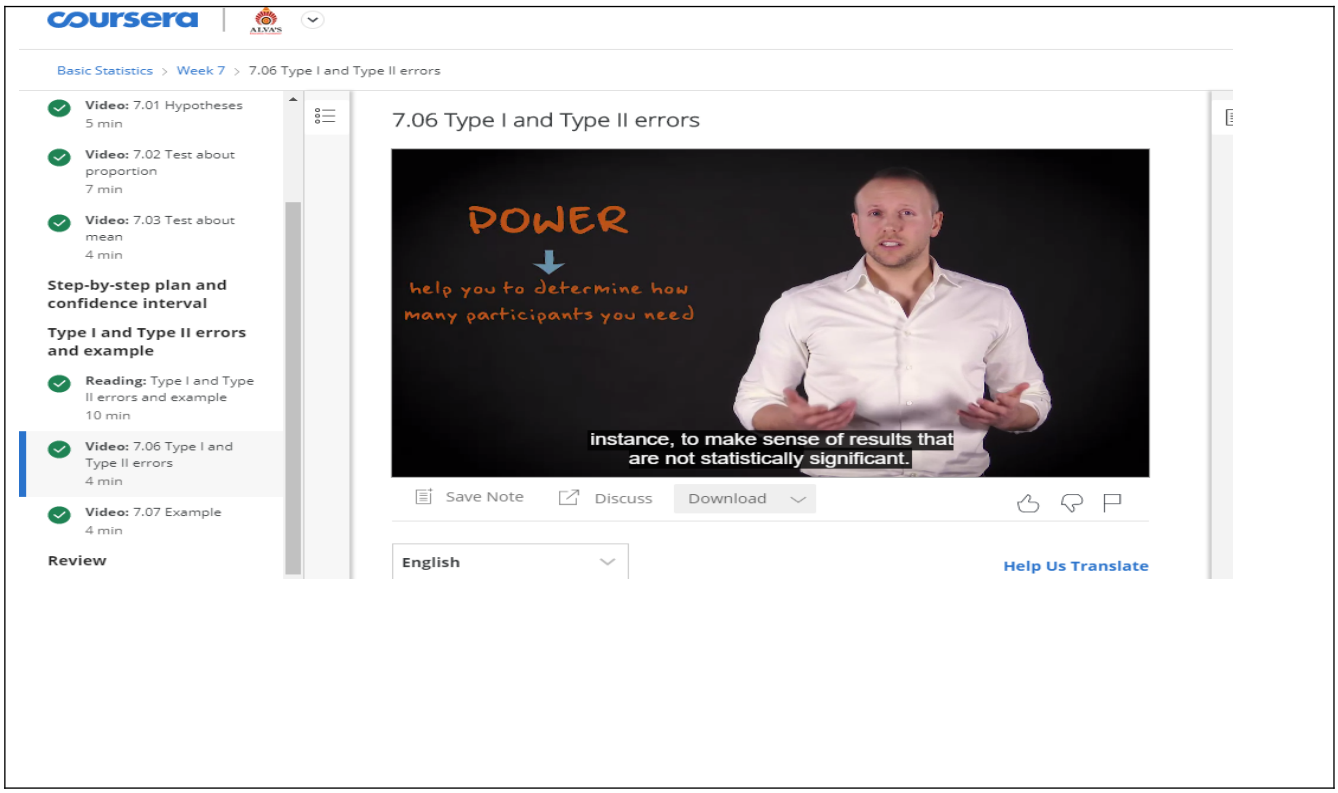
Course:	Coursera	USN:	4AL17EC097
Topic:	Basic Statics	Semester & Section:	6TH SEM & 'B' Section
Github Repository:	yamunashree-course		

SESSION DETAILS





Hypotheses

Sample data
↑
Significance test → method of inferential statics
↑
Hypotheses
expectations about population

null Hypothesis testing
↓
Hypotheses

null hypothesis
H_0
- The parameter you're interested in takes a specific value
- Will be rejected if the data in your sample suggest that it is a highly unlikely expectation

mutually exclusive

alternative hypothesis
H_a
- claims that the parameter you're interested in falls within an alternative range of value

Test about proportion

How many Z-scores the sample statistic is removed from the population parameter
↓
Z-score
↓
test statistic $= z = \frac{p - \pi_0}{se_0}$, where $se_0 = \sqrt{\frac{\pi_0(1-\pi_0)}{n}}$

Significance test

one or two tails
significance level
Results

most significance tests are two-tailed, and based on a significance level of 0.05

print excel

step by step plan and confidence interval

1. Proportion or mean?
2. Formulate hypothesis
3. Check assumptions
4. Determine α
5. Compute test statistics
6. Draw sampling distribution
7. Find location of test statistics
8. Reject H_0?
9. Interpret findings

Significance test & confidence interval

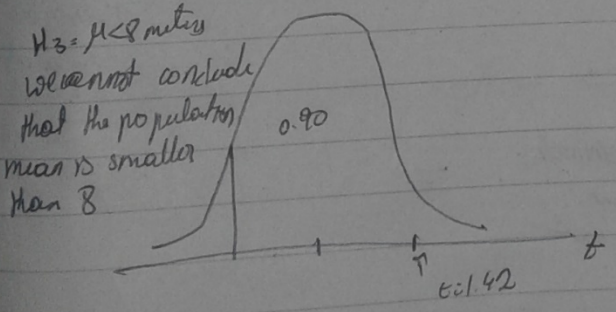
inferential statistics

- estimation (confidence intervals)
- significance test

assumptions:

1. Randomization.
2. Population distribution "approximately normal"

Sampling distribution of sample mean



Always draw the sampling distribution