Aptitude tests for numerous occupations Com keep track of how many individuals scored well in various courses. The data comprises 170 individual people's scores in six distinct subjects: Physics, Chemistry, Biology, Zoology, Botony, AI. The data is displayed in the "Project" spreadsheet. The characteristics in the given dataset are as follows:

1. Department: Describe the department to which the individual belongs.   
   The attributes of department are

🡪Industry

🡪Research

🡪Service

1. Gender: Describe the individual's sex.   
   The attributes of Gender are

🡪Male

🡪Female

1. 5 topics: Describes each subject's score out of 100 for the person.

5 subjects include:

🡪Physics

🡪Chemistry

🡪Biology

🡪Zoology

🡪Botony

🡪AI

**Applying the Concept from Module 2:**

* Construct 95 percent confidence intervals for the mean in Physics for all three departments.
* The three department are

🡪Industry

🡪Research

🡪Service

**Applying the Concept Form Module 3:**

* A group of automobiles company claims that cars that meet minimum standards will get 25 miles per gallon (MPG). An independent testing firm has been hired to test the MPG of cars with minimum standards, as it is suspected that the cars have an incorrect manufacturer's MPG rating. After testing 135 cars, they discovered a mean MPG of 22.8.

The standard deviation has been calculated to be 4.1. The level of significance will be set at 0.02. Decide on whether to reject or not to reject the null hypothesis

**Taking a cue from Module 1:**

* Assume the mean of Subject Physics is 88.07 and the standard deviation is 10.07. What is the likelihood that a randomly picked person would score less than 90 if the marks for the topic are distributed normally?

**Applying the Concept Form Module 4:**

* I'll be looking for Is there a distinction? The genuine mean scores of three separate participants were compared using the ANOVA technique.

We are using 3 subject that is Chemistry, zoology And Botony.

* In this project, I am going to work on various types of hypothesis testing. I used sample mean, T test, Anova, and confidence interval in this case.
* I used a different type of dataset to solve each problem.
* By solving these problems, we will be able to learn the different types of hypothesis testing. In the z test, we are able to know whether the hypothesis is left or right.