# EXPERIMENT NO: 13

**Hypothetical Testing - T Test**

**Aim:**

To test whether the average IQ score of a sample of students differs significantly

from a population mean IQ score of 100.

**Algorithm:**

* Null Hypothesis (H₀): The average IQ score of the sample is 100.
* Alternative Hypothesis (H₁): The average IQ score of the sample is not 100.
* Sample: Measure the IQ scores of 25 randomly selected students.
* T-Test: Conduct a one-sample T-test to compare the sample mean to 100.
* Decision Rule: Use a significance level of α = 0.05.

**Program:** **A screenshot of a computer

AI-generated content may be incorrect.**

**Result:**

Thus, the Python code to hypothetical testing -T test in Jupyter Notebook has been successfully executed.