/Users/bps/PycharmProjects/hypothesis\_tesing/venv/bin/python /Users/bps/PycharmProjects/hypothesis\_tesing/main.py

Welcome to the Hypothesis Testing calculator made by ALIAS GEORGE

Select the Calculator (type the no corresponding eg 1 for one mean Large sample)

- 1. One Mean Large sample
- 2. One Mean Small sample
- 3. Two Mean Large sample
- 4. Two Mean Small sample with both normal and  $\sigma 1 = \sigma 1$
- 5. Matched Pair t-Test
- 6. One Variance Test
- 7. Two Variance Test
- 8. One Proportion Test
- 9. Multi Proportion Test
- 10. Two Proportion Difference Test
- 11. R and C Analysis Test
- 12. Goodness Fit Test

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6. One Variance Test

```
Level of significance: 0.05
Is the data in Variance:
1. yes
2. no
No of samples: 15
Standard deviation of sample \sigma: 0.64
Claim Standard deviation \sigma_{-}0: 0.50
Select the alternative Hypothesis to test with null \sigma_0 = 0.5
1. \sigma < 0.5
2. \sigma > 0.5
3. \sigma != 0.5
The null must be rejected if \chi^2>23.6848
Calculations
\chi^2 = 22.9376
Decision
Failure to reject Null \sigma = 0.5
```

Process finished with exit code 0