/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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4. Two Mean Small sample with both normal and $\sigma 1 = \sigma 1$

Level of significance: 0.05
Is the data given in raw format:
1. yes
2. no
1
Enter the Raw data of 1
707 632 604 652 669 674

Enter the Raw data of 2 552 554 484 630 648 610

 $\mu 1 - \mu 2 : 0$

Select the alternative Hypothesis to test with null $\mu1$ - $\mu2$ = 0.0

- 1. μ 1 μ 2 < 0.0
- 2. $\mu 1 \mu 2 > 0.0$

3. $\mu 1 - \mu 2 != 0.0$

3

The null must be rejected if t<-2.2281 or t>2.2281

Calculations

t = 2.6511140904034836

Decision

Null $\mu 1$ - $\mu 2$ = 0.0 must be Rejected at level of significance 0.05 and Accept $\mu 1$ - $\mu 2$!= 0.0

Process finished with exit code 0