

```
/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
- 3

3. Two Mean Large sample

Level of significance: 0.02

No of samples 1: 54

Mean of sample 1: 1.63

Standard deviation of sample/Population 1: 0.177

No of samples 2: 54

Mean of sample 2: 1.77

Standard deviation of sample/Population 2: 0.183

$\mu_1 - \mu_2 : 0$

Select the alternative Hypothesis to test with null $\mu_1 - \mu_2 = 0.0$

1. $\mu_1 - \mu_2 < 0.0$

2. $\mu_1 - \mu_2 > 0.0$

3. $\mu_1 - \mu_2 \neq 0.0$

3

The null must be rejected if $Z < -2.3263$ or $Z > 2.3263$

Calculations

$Z = -4.040890688478767$

Decision

Null $\mu_1 - \mu_2 = 0.0$ must be Rejected at level of significance 0.02 and Accept $\mu_1 - \mu_2 \neq 0.0$

Process finished with exit code 0