# ANAVO

**PROBLEM STATEMENT FOR ONE INDEPENDENT VARIABLE:**

1. Three gift shops located at same street having competitions among them. Workers on these shops have worked tirelessly to increase the sales every day. Perform an analysis of variance test the homogeneity of the sales.

| SHOPS | SALES OF EACH DAY | | | | |
|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 |
| John gifts | 12 | 23 | 35 | 46 | 52 |
| Trendy gifts | 13 | 25 | 33 | 44 | 56 |
| Sona gifts | 17 | 22 | 36 | 48 | 59 |

2.The following table shows the lifetime hours of batteries of two brands. Perform an analysis of variance test the homogeneity of the two brands of batteries.

| BRANDS | LIFETIME IN HOURS | | | |
|---|---|---|---|---|
| DURACELL | 4320 | 4100 | 4250 | 4135 |
| EVERYDAY | 3948 | 3800 | 4024 | 4200 |

**PROBLEM STATEMENT FOR TWO INDEPENDENT VARIABLE:**

3.Three IT industries has different success rate on each project. Is there any significance difference between these success rate on different projects of IT Industries? Find ANAVO based on this scenario.

| IT INDUSTRIES | SUCCESS RATE ON PROJECTS | | |
|---|---|---|---|
| | CITIBANK | NOKIA | APPLE |
| INFOSYS | 93 | 95 | 99 |
| CTS | 98 | 94 | 98 |
| TCS | 95 | 92 | 99 |

4. Consider three soap industries and their products like face wash, soap and body wash. The quality of products is examined and updated the values in each column. Is there any significance difference between these industries and quality of products?

| INDUSTRIES | PRODUCT QUALITY | | |
|---|---|---|---|
| | FACE WASH | SOAP | BODY WASH |
| SANTOOR | 65 | 63 | 72 |
| HIMALAYA | 86 | 53 | 45 |
| PEARS | 25 | 40 | 63 |

5.The following table have smart watch companies and the quality of smart watches based on its performance is updated. Find ANAVO based on this scenario and perform an analysis of variance test.

| WATCH BRANDS | PERFORMANCE ANALYSIS | | |
|---|---|---|---|
| | DISPLAY QUALITY | PERFORMANCE SPEED | BATTERY LIFE |
| NOISE PULSE | 95 | 98 | 96 |
| FIRE-BOLTT | 96 | 94 | 98 |
| PTRON | 91 | 93 | 95 |