DELHI TECHNOLOGICAL UNIVERSITY

PROBABILITY AND STATISTICS (MC-205)

PRACTICAL FILE



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EXPERIMENT 9

Chi-square Test

SOURCE CODE:

Chi-square Test of Independence

```
tbl=cbind(x=c(12,23,26,17,9,45),y=c(34,25,41,19,53,33))
chisq.test(tbl)
chisq.test(rnorm(10),rnorm(10))
```

OUTPUT:

Chi-square Test of Independence

CONCLUSION:

A **chi-squared test**, is a statistical hypothesis test that is valid to perform when the test statistic is chi-squared distributed under the null hypothesis, specifically Pearson's chi-squared test and variants thereof.

Pearson's chi-squared test is used to determine whether there is a statistically significant difference between the expected frequencies and the observed frequencies in one or more categories of a contingency table.