Laxmi Charitable Trust's
Sheth L.U.J College of Arts & Sir M.V. College of Science and Commerce Department of Information Technology
(B.Sc.I.TSemester IV)
Data Analysis with SAS/SPSS/R

Practical – IX

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Class: SYIT	Batch: 2
Date of Assignment: 17-01-2026	Date/Time of Submission:17-01-2026

AIM:-Conducting Chi-square tests using chisq.test() (R)

CODE:-

```
# Create a contingency table
transport <- matrix(c(30, 20,
                      15, 35),
                    nrow = 2,
                    byrow = TRUE)

# Add row and column names
dimnames(transport) <- list(
  Gender = c("Male", "Female"),
  Transport = c("Car", "Bike")
)

transport
# Perform chi-square test
chi_result <- chisq.test(transport)

# Display result
chi_result
```

OUTPUT:-

```
> # Create a contingency table
> transport <- matrix(c(30, 20,
+                       15, 35),
+                     nrow = 2,
+                     byrow = TRUE)
>
> # Add row and column names
> dimnames(transport) <- list(
+     Gender = c("Male", "Female"),
+     Transport = c("Car", "Bike")
+ )
>
> transport
        Transport
Gender   Car Bike
  Male    30   20
  Female  15   35
>
> # Perform chi-square test
> chi_result <- chisq.test(transport)
>
> # Display result
> chi_result

        Pearson's Chi-squared test with Yates' continuity correction

data:  transport
X-squared = 7.9192, df = 1, p-value = 0.004891
```