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 – VII

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

AIM:- Performing one-way ANOVA using aov() (R).

CODE:-

```
# Create data
score <- c(65, 70, 68, 72, 75,
           78, 82, 80, 85, 88,
           90, 92, 95, 93, 91)

group <- factor(c("A","A","A","A","A",
                  "B","B","B","B","B",
                  "C","C","C","C","C"))

data <- data.frame(score, group)

# Perform one-way ANOVA
anova_result <- aov(score ~ group, data = data)

# Display result
summary(anova_result)
```

OUTPUT:-

```
> score <- c(65, 70, 68, 72, 75,
+            78, 82, 80, 85, 88,
+            90, 92, 95, 93, 91)
> group <- factor(c("A","A","A","A","A",
+                   "B","B","B","B","B",
+                   "C","C","C","C","C"))
> data <- data.frame(score, group)
> anova_result <- aov(score ~ group, data = data)
> summary(anova_result)
            Df Sum Sq Mean Sq F value   Pr(>F)
group        2   1240   619.8   54.69 9.34e-07 ***
Residuals   12    136    11.3
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```