**BT – 307**

**Lab - 03**

**a)** Name – Milind Lakhwani Roll No. – 200106046

**b)** data1.csv

**c)** D = 0.3560 \* A + 0.5303 \* B + 1.1271 \* C

**d)** Adjusted R-squared = 0.9997

**e)** P-values (t-test) for each coefficient

Intercept - 0.26230

A - 0.00796

B - 2.46e-05

C - 2.08e-10

P – value for intercept > 0.05.

Since p-value for intercept is very high. So null hypothesis is accepted and we remove the intercept from our model.

New P-values (t-test) after removing intercept

A - 0.0081

B - 2.89e-05

C - 8.27e-11

**f)** P-value for F-test = 2.2e-16

**g)** Confidence Interval for each parameter –

A - 0.3560 ± 0.2536

B - 0.5303 ± 0.2095

C - 1.1271 ± 0.2024