

## Assignment 10

1. A company appoints 4 salesman (A, B, C & D) and observes their sales in 3 seasons (Summer, Winter & Monsoon). The figures (Rs. in Lakhs) are given in the following table.

	Treatments			
Seasons	A	B	C	D
Summer	36	36	21	35
Winter	28	29	31	32
Monsoon	26	28	29	29

Write down the R programming code to perform an analysis of variance at 5 % level of significance.

2. The following data resulted from an experiment to compare three burners (B1, B2 & B3). A Latin square design was used as the tests were made on 3 engines and were spread over 3 days.

	Engines		
Days	Engine 1	Engine 2	Engine 3
Day 1	B1 – 16	B2 – 17	B3 – 20
Day 2	B2 – 16	B3 – 21	B1 – 15
Day 3	B3 – 15	B1 – 12	B2 – 13

Write down the R programming code to test the hypothesis that there is no difference between (i). days, (ii). engines and (iii). burners at 5 % level of significance.