**One-way ANOVA**

Program:

#1

price=c(16,8,12,14,14,10,10,6,4,10,8,8)

city=c(rep('Mumbai',4),rep('Culcutta',4),rep('Delhi',4))

one\_way=aov(price~city)

one\_way

summary(one\_way)

#2

miles=c(20,23,18,17,19,15,17,20,16,21,19,20,17,16,15,17,16,18)

length(miles)

Brand=c(rep('Brand1',4),rep('Brand2',5),rep('Brand3',5),rep('Brand4',4))

one\_way=aov(miles~Brand)

one\_way

summary(one\_way)

#3

life\_expectancy=c(34,28,32,29,31,23,34,37,32,30,39,35,37,32,31)

Manufacturer=c(rep('Brand1',5),rep('Brand2',4),rep('Brand3',6))

one\_way=aov(life\_expectancy~Manufacturer)

one\_way

summary(one\_way)

#4

speed=c(25,30,36,38,31,31,39,38,42,35,24,30,28,25,28)

Machine=c(rep('Brand1',5),rep('Brand2',5),rep('Brand3',5))

one\_way=aov(speed~Machine)

one\_way

summary(one\_way)

TukeyHSD(one\_way)