

1. Create a Data Frame of 3 columns: EMPID, SALARY, STATUS of 10 values for each column. Draw a boxplot of salary column for different categories of Status

```
i) empid <- seq(1, 10)
ii) salary <- c(1000, 3000, 3000, 15000, 7000, 4800,
               7900, 3200, 2100, 500)
iii) status <- c("Married", "Bachelor", "Bachelor",
                 "Married", "Married", "Bachelor", "Married",
                 "Bachelor", "Bachelor", "Married")
iv) person <- data.frame(empid, status, salary)
v) boxplot(salary ~ status, data = person, xlab
           = "Marital status", ylab = "Salary", col =
           "gray90")
```

2. Draw a Boxplot selecting random numbers of 100 points from a ND with mean = 0, sd = 1. Draw Scatterplot & Boxplot.

```
i) library("ggplot2")
ii) x <- rnorm(100, mean = 0, sd = 1)
iii) boxplot(x)
```

iv). $y \leftarrow x + rnorm(100, mean = 0, sd = 0.5)$
v). `frame <- as.data.frame(cbind(x, y))`
vi). `ggplot() + geom_point(data = frame,
aes(x = x, y = y), size = 3, color = "blue")`