

Lab - 5.

- 1) Create a data frame of three columns EMPID, SALARY, MARITAL STATUS of 10 values for each column. Draw a boxplot for salary column for different categories of marital status.

a)

```
empid = c(101, 102, 103, 104, 105, 106, 107, 108, 109, 110)
salary = c(10000, 15000, 12000, 14000, 20000, 35000, 80000,
           76000, 85000, 50000)
marital-status = c("married", "bachelor", "bachelor",
                   "bachelor", "married", "married", "bachelor",
                   "bachelor", "bachelor", "married")

my-frame = data.frame(empid, salary, marital-status)
boxplot(frame$salary ~ frame$marital-status, data = frame)
```

- 2) Draw a boxplot selecting random numbers of 100 points from a normal distribution with mean 0 & sd = 1. Draw a boxplot and scatterplot where size of each point is 3, colour = Blue. Give appropriate titles for x & y axes.

a)

```
ran-num = rnorm(100, mean = 0, sd = 1)
ran-num
boxplot(ran-num)
ran-y = rnorm(100, mean = 2, sd = 1)
ran-y
```

```
my-frame = data.frame(x=ran-num, y=ran-y)
```

```
ggplot() + geom_point(data = my-frame, aes(x = ran-num,  
y = ran-y), color = "blue", size = 3)
```