**Assignment 4.3**

**Ques:1. States = rownames(US Arrests)**

**Get states names with ‘w’.**

**Get states names with ‘W’.**

**Ans:-**

**States = rownames(US Arrests)**

**Get states names with ‘w’.**

grep(pattern = "w", x = states, value = TRUE)

[1] "Delaware" "Hawaii" "Iowa" "New Hampshire"

[5] "New Jersey" "New Mexico" "New York"

**Get states names with ‘W’.**

grep(pattern = "W", x = states, value = TRUE)

[1] "Washington" "West Virginia" "Wisconsin" "Wyoming"

**2. Prepare a Histogram of the number of characters in each US state.**

**Ans:-**

state\_chars = nchar(states)

hist(nchar(states), main = "Histogram",border = "red",

xlab = "number of characters in US State names")

