**Session 4 – Foundational R Programming - II**

**Assignment – 3**

Problem Statement

1. 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")**

