

## 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")
```



