

ACADGILD

SESSION 4: FOUNDATIONAL R PROGRAMMING-II

Assignment 3

Data Analytics

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1. Introduction

This assignment will help you understand the concepts learnt in the session.

2. Objective

This assignment will test your skills on foundational R Programming- writing functions.

3. Prerequisites

Not applicable.

4. Associated Data Files

Not applicable.

5. Problem Statement

1. states=rownames(USArrests)

• Get states names with 'w'.

```
ANS: library(dplyr)

states=rownames(USArrests)

#states that starts with "w"-----
grep("w",rownames(USArrests))
x=grep("w", states)
for(i in 1:length(x)){
   print(states[x[i]])
   }
```

• Get states names with 'W'.

ANS: #States that start with "W"

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

```
ANS: an <- c(0)

for(i in 1:50){

temp <- states[i]

len <- nchar(temp)

an <- c(an,len)

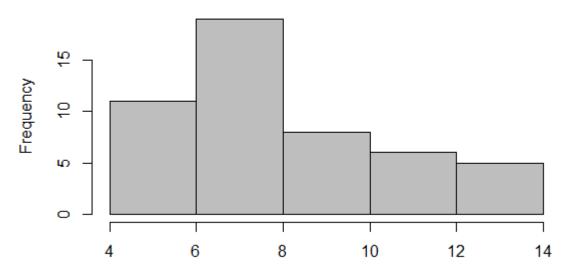
}

hist(an[2:50],xlab="No. of characters in each state", main =

"Histogram",col = "grey")

nchar(states)
```

Histogram



No. of characters in each state

Data Analytics