Data Analytics

Session 5 – Foundational R Programming - II

**Assignment – 5.1**

**1). Introduction**

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

**2). Objective**

This assignment will test your skills on Data Management Functions in R.

**3). Prerequisite**

Not Applicable

**4). Associated Data Files**

Not Applicable

**5). Problem Statement**

1. How many vowels are there in the names of USA States?

Ans:

library(dplyr)

library(states)

states=row.names(USArrests)

states

library(stringr)

#vector of vowels

vowels=(c("a","e","i","o","u"))

vowels

num\_vowels=vector(mode = "integer",length=5)

for (j in seq\_along(vowels)) {

num\_aux = str\_count(tolower(states), vowels[j])

num\_vowels[j] = sum(num\_aux)}

#add vowel names

names(num\_vowels)=vowels

# total number of vowels

num\_vowels

2. Visualize the vowels distribution.

Ans: barplot

barplot(num\_vowels, main = "Number of vowels in USA States Name",

border = NA, ylim = c(0,80))

**6). Expected Output**

Not Applicable