

ACADGILD

SESSION 4: FOUNDATIONAL R PROGRAMMING-II

Assignment 3

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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

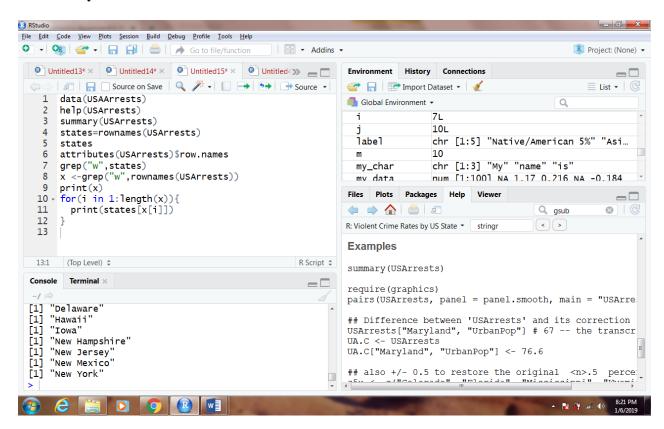
- states=rownames(USArrests)
 - Get states names with 'w'.
 - Get states names with 'W'.

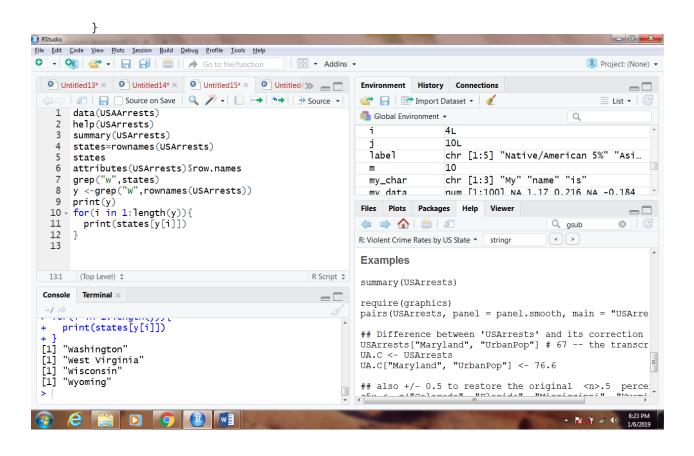
```
#1. States
=
rownames(US
Arrests)
    #Get states names with 'w'.
    #Get states names with 'W'.
```

```
States = rownames(USArrests)
rownames(USArrests)

#for w
grep("w",rownames(USArrests))
x<-grep("w",States)

for (i in 1:length(x)){
   print(States[x[i]])
}</pre>
```





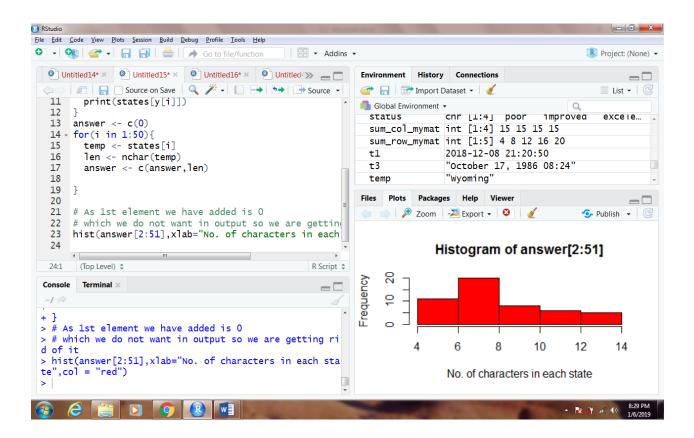
2. Prepare a histogram of the number of characters in each US state.

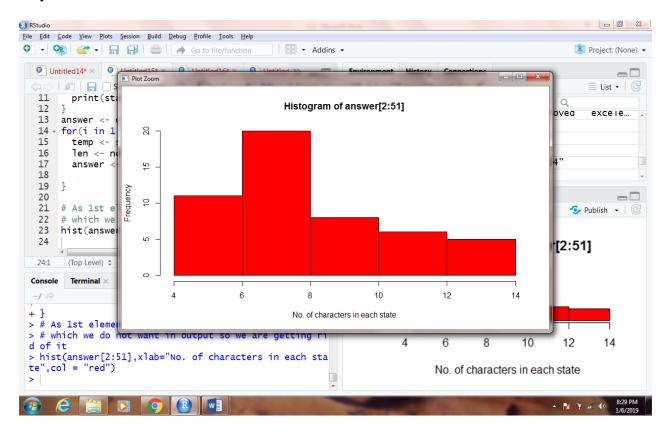
```
answer
<-
c(0)
```

```
for(i in 1:50){
   temp <- States[i]
   len <- nchar(temp)
   answer <- c(answer,len)

# As 1st element we have added is 0
# which we do not want in output so we are getting rid of it

hist(answer[2:51],xlab="No. of characters in each state",col = "red")</pre>
```





6. Expected Format

- 1. R file should be submitted where applicable.
- 2. R file should be in PDF or in .r format
- 3. Proper screenshots of the outputs should be submitted as well
- 4. The r codes, if submitted in any other format, will be subjected to deduction in marks

Note: Your solution will not be entertained if it is any other format, e.g., .zip, .doc, .rtf etc.

7. Approximate Time to Complete Task

30 mins.