Strings Data Structure

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My Name is Farhiya Mohamud. This is in submission of a class assignment for a data science course I am taking at Huru school. The assignment was to create codes on various data structures and how to manipulate them, I got ‘Strings’. The codes I used are below.

# A. Definition

String is a sequence of alphanumeric characters used to store text ## creating strings in R

strings in R are created by enclosing in single and double quotes Data\_Science\_Class= ‘Python, R’ Data\_Science\_Evening\_Class= “PYTHON, R” Data\_Science\_Class Data\_Science\_Evening\_Class

## String Manipulation

### To get the length of a string, use nchar() function to return the number of characters in a string.

nchar(Data\_Science\_Class) length(unlist(strsplit(Data\_Science\_Class, ’’)))

### Checking strings- to check if a certain phrase is in a string, use grepl() function. It will give a boolean output

grepl(‘SPSS’, Data\_Science\_Class)

### To check the type of the data structure in use

typeof(Data\_Science\_Class)

## Built-in Functions

## toupper()- returns strings in upper case

class= toupper(Data\_Science\_Class) class

## tolower()- returns the strings in lower case

Evening\_class= tolower(Data\_Science\_Evening\_Class) Evening\_class

## substring ()- extracts parts of a string

R\_Section= substring(Evening\_class, 8) R\_Section

## Concatenation- two or more strings can be combines using + operator. use paste() function

Course\_A= “Python” Course\_B= “R” paste(Course\_A, Course\_B) ’