

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) 'quit() quit()
```