Entering Data from the Keyboard

In this lesson, we will learn about getting data from the user.

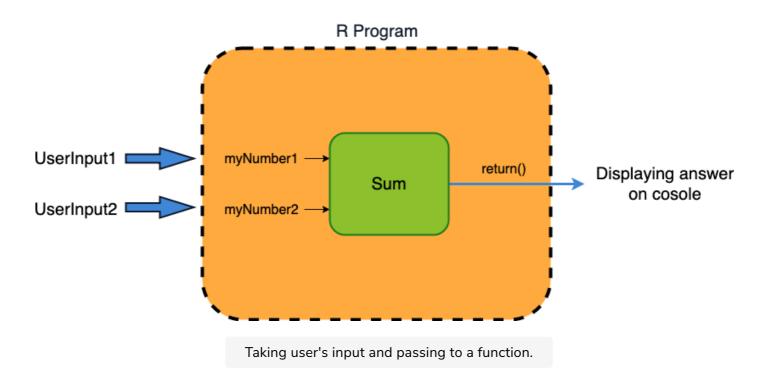
We'll cover the following Using readLine() Function to Get User Input Steps for fetching data using STDIN

Sometimes while we are writing a program, we may want to take input from the user who is actually using our program. We design tasks so that they run on any input that the user may give.

Take the example of a calculator. We put some input into it and tell it what to do with the input. It performs the respective task and displays the result.

Now suppose we are also creating a calculator that performs only **addition**.

Let's have a look at an example:



In the illustration, above we take two inputs from the user, perform a certain task on it and then display the result on the console.

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Using readline() Function to Get User input

The readLine() function reads a line from the console, this is referred as stdin file in R. The data fetched through this function can be stored in a variable and later used by the program.

Steps for fetching data using **STDIN**

1. First, fetch the file using

```
input <- file("stdin")</pre>
```

2. Then use the function readLines()

```
UserInput <- readLines(input, <numberOfInputs>)
# Here the variable `UserInput` is a list and each of its elements can be acce
ssed using square brackets.
```

Let's look at the code for fetching data from a user and then passing it to a function.

Follow the following steps for executing the code below:

- Click on >_ STDIN and enter two values on separate lines. The first number should be typed in on the first line and the second number on the second line.
- Then click RUN.

```
Sum <- function(value1, value2)
{
    x = as.integer(value1)
    y = as.integer(value2)
    x+y
}

# Driver Code
input <- file("stdin")
UserInput <- readLines(input, 2)
print(Sum(UserInput[1], UserInput[2]))</pre>
```

the variable UserInput. The number of inputs is 2. Next, we pass these inputs to the Sum() function.

The input that is taken from a file using the readLines() function is always of type string.

Therefore, to perform the **addition operation** we need to convert it to an **integer** using the <code>as.integer()</code> function. This function converts the passed parameter to **integer** type object.

The core strength of a typical R application is **manipulating large chunks of data**. Such data cannot be easily entered by a user; therefore, **external files** are used to pass data to programs in R language. Such a method is more efficient and easy to use.

We will be learning how to get input from .csv and .txt files in the coming lessons.