

# ACADGILD ASSIGNMENT 1.2

1. How many ways are there to call a function in R?

**Answer:** Functions are used to logically break our code into simpler parts which become easy to maintain and understand.

It's pretty straightforward to create your own function in R programming

Function Return Value

R Environment & Scope

R Recursive Function

R Switch Function

## Syntax

```
func_name <- function (argument) {statement}
```

- Here, we can see that the reserved word function is used to declare a function in R.
- The statements within the curly braces form the body of the function. These braces are optional if the body contains only a single expression.
- Finally, this function object is given a name by assigning it to a variable, func\_name.

## Example of a Function

```
pow <- function(x, y) {  
  
# function to print x raised to the power y
```

```
result <- x^y
```

```
Print(paste(x,"raised to the power", y, "is", result))
```

```
}
```

Here, we created a function called `pow()`.

It takes two arguments, finds the first argument raised to the power of second argument and prints the result in appropriate format.

We have used a built-in function `paste ()` which is used to concatenate strings

2. Is the below statement true?

The lazy evaluation of a function means, the argument is evaluated only if it is evaluated only if it is used inside the body of the function

**Answer:** True

**Example:**

In this example, the function `f ()` has two arguments: `a` and `b`

```
> f <- function(a, b) {  
+   a^2  
+ }  
> f(2)  
[1] 4
```

This function never actually uses the argument `b`, so calling `f(2)` will not produce an error because the `2` gets positionally matched to `a`. This behavior can be good or bad. It's common to write a function that doesn't use an argument and not notice it simply because R never throws an error.

3. Mention true or false for below statements:

a. Insights driven from descriptive analytics is not meaningful.

**Answer:** False

b. The number of values in each Elements of a list, should be equal

**Answer:** False

c. The datasets are not stored in memory of the computer using R

**Answer:** True

d. Data frames and matrices are two dimensional however the array is multidimensional.

**Answer:** True

