

Exercise 7 : Functions in R

In this session of exercise, the following things are implemented in R

- Functions

Note the text shaded (which you will find as you go through the exercises) with grey are commands.

This is command

a) Functions

a) Function with one argument

1. Write a function for the factorial.

```
getFactorial <- function(number) {  
  j=1  
  for (index in 1:number) {  
    j <- j*index  
  }  
  return(j)  
}
```

2. Write a function for finding mean of the given number.

```
getMean_3 <- function(x) {  
  sum <- 0  
  length <- 0  
  for (i in 1:length(x)) {  
    if (!is.na(x[i])) { #exclude NAs  
      sum <- sum+x[i] #keep a running tally of the sum  
      length <- length+1 #and the length  
    }  
  }  
  return(sum/length) #this is the mean  
}
```

b) Function with two arguments

3. Write a function for finding mean of the given number.

```
Mysum<-function(a,b) {  
  result<-a+b  
  return(result)  
}
```

