**Preparatory Course-2019**

**Fellow Program in Management**

**Indian Institute of Management Bangalore**

**Introduction to R (Sessions 3 and 4)**

Requirement:

1. Installation of R and R-studio in the laptops of students.
2. Installation of following libraries: dplyr, data.table, tidyverse

Course Contents:

1. Basics of Programming and Logic Design
   1. Functions
   2. if-else
   3. for loops
   4. vectorized operations
   5. logical constructs
2. Programming Complexity and Errors
3. Summarization and Aggregation
   1. Introduction to data.table library
      1. improvements over data.frame
   2. aggregation, grouping and summary
   3. chaining
   4. merging datasets
   5. parallels from dplyr package (only if time permits)
4. Loop functions