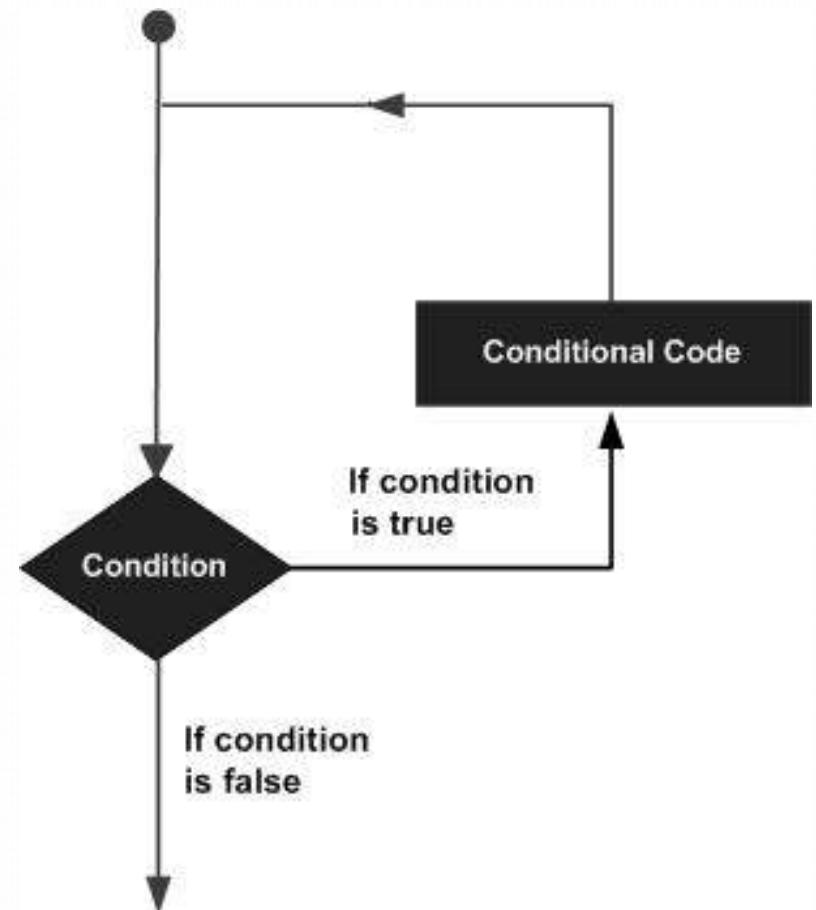# R for Data Scientists

Dr Sainath S Pawaskar – spawaskar@gmail.com

Loops

- Execute a block of code several times

- Loop control statements

  – Alters the normal flow of sequence

- Loops can be nested

© Dr Sainath S. Pawaskar

for Loop

- for (value in vector) {

    statement(s)

    }

- Used when number of repetitions are known in advance

- Condition can contain numeric vector, string vector, lists, expression, etc.

while Loop

- while (test_expression) {

   statement(s)

   }

- Used when number of repetitions are not known in advance

- Runs till stop condition is met

repeat Loop

- repeat {

    statement(s)

    if(condition) {

        break

    }

}

- Runs till stop condition is met

Loop Control Statements

- break
  - Inside loop, it terminates the loop and control returns to first statement after the loop

- next
  - Skips current loop iteration
  - Do not terminate loop
  - All statements below next are skipped
  - Control returns to the top of the loop for next iteration