FOR 215

Assignment 7, Submit in Moodle by Thursday 10.10. 10 am

Exercise 1

Write an if-statement that compares numbers x and y.

- if x is bigger, R prints out for example “x was bigger”

- if x and y are equal, R prints: “x and y are equal”

- if y is bigger, R prints “y is bigger than x”

Exercise 2

Generate two vectors from normal distribution (function rnorm()) which both contain hundred

entries. Sort both vectors with sort() function.

- Plot the vectors (first vector as x-value and second as y-value)

- Define colors so that negative y-values are drawn as red and positive values are drawn as

green (use for- and if statements inside the plot() function)

Exercise 3

Plot the height of all downy birches (PUULAJI=4) that have a diameter over 30 cm (x=height,

y=diameter). Use while() and if() statements.

Exercise 4

Collect (into a vector) the numbers of those plots that have aspen (PUULAJI=5) growing on them.

Exercise 5

Determine tree-wise basal areas (in cm2) of pines (PUULAJI=1) in the puudata. Use for- and

ifstatements. Place the results in a new column.

Some help:

- Diameter is given in millimeters

- Basal area can be calculated (pi\*d^2)/4

- First create an empty vector: for example ba<- c()

- Add the calculated values to the vector with append() function (check R-help for help)