Exercises part1

Basic Expressions

1. Perform addition: 5 + 3.

2. Perform multiplication: 4 * 6.

3. Perform division: 20 / 4.

4. Calculate the remainder: 15 %% 4.

5. Calculate the integer division: 15 %/% 4.

6. Calculate an exponent: 3^2.

7. Combine operations: 2 + 3 * 4 – 1.

8. Compare values: 7 > 5.

9. Check equality: 9 == 9.

10. Check inequality: 10 != 3.

11. Combine comparisons: (5 > 2) & (7 < 10).

12. Combine comparisons: (4 > 6) | (8 == 8).

Function Calls

1. Call the sqrt() function for 25.

2. Call the log() function for 100.

3. Call the exp() function for 2.

4. Call the round() function for 3.14159 to 2 decimal places.

5. Generate 10 random numbers: runif(10, min = 0, max = 1).

6. Repeat the string "Rocks!" 3 times: rep("Rocks!", 3).

Variable Assignment

1. Assign a value to a variable: x <- 10.

2. Print the value of x.

3. Assign the result of 5 + 3 to y.

4. Assign a string to a variable: name <- "R is fun".

5. Assign a logical value: flag <- TRUE.

6. Change the value of x to 20.

7. Assign the result of sqrt(16) to z.

8. Create a new variable: a <- x + y.

9. Print the value of a.

10. Assign a sequence of numbers: seq <- 1:10.

11. Assign repeated values: repeated <- rep(5, times = 3).

12. Assign a logical vector: logic <- c(TRUE, FALSE, TRUE).