**WAP in R to perform correlation analysis.**

**Example:**

| **Height** | **Weight** | **Age** |
| --- | --- | --- |
| **175** | **70** | **25** |
| **180** | **75** | **30** |
| **165** | **65** | **22** |
| **170** | **68** | **28** |

**1. Install Required Packages**

You’ll need the readxl or openxlsx package to load the Excel file into R.

install.packages("readxl") # If you haven't installed it yet

**2. Load Data from Excel**

Here, we’ll use the readxl package to read the Excel file.

# Load the necessary library

library(readxl)

# Load your Excel file (ensure the correct file path is provided)

data <- read\_excel("C:/path/to/your/excel/file.xlsx")

# View the data to ensure it is loaded correctly

print(data)

Make sure that your Excel file contains numerical columns that you want to perform correlation analysis on.

**3. Perform Correlation Analysis**

Assuming the columns Height, Weight, and Age are the ones you want to correlate, you can use the cor() function.

# Perform correlation analysis on specific columns

correlation\_matrix <- cor(data[, c("Height", "Weight", "Age")])

# View the correlation matrix

print(correlation\_matrix)

**Step-by-Step Breakdown:**

* data[, c("Height", "Weight", "Age")]: This selects the columns from the loaded dataset for which you want to calculate correlations.
* cor(): This function computes the correlation between the columns.

**Example Output:**

Height Weight Age

Height 1.0000000 0.9805807 0.9922779

Weight 0.9805807 1.0000000 0.9561829

Age 0.9922779 0.9561829 1.0000000