RWorksheet_#5

2023-12-12

```
student \leftarrow c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
pre_test <- c(55, 54, 47, 57, 51, 61, 57, 54, 63, 58)
post_test <- c(61, 60, 56, 63, 56, 63, 59, 56, 62, 61)
StudentScore <- data.frame(Student = student, Pre_Test = pre_test, Post_Test = post_test)
print(StudentScore)
##
      Student Pre_Test Post_Test
## 1
           1
                    55
## 2
           2
                    54
                              60
## 3
           3
                    47
                              56
           4
## 4
                    57
                              63
## 5
           5
                    51
                              56
## 6
           6
                    61
                              63
           7
## 7
                    57
                              59
## 8
           8
                    54
                              56
           9
                              62
## 9
                    63
## 10
           10
                    58
                              61
if (!requireNamespace("Hmisc", quietly = TRUE)) {
  install.packages("Hmisc")
if (!requireNamespace("pastecs", quietly = TRUE)) {
  install.packages("pastecs")
library(Hmisc)
##
## Attaching package: 'Hmisc'
## The following objects are masked from 'package:base':
##
##
       format.pval, units
library(pastecs)
#2.
# Your data
fertilizer_levels <- c(10, 10, 10, 20, 20, 50, 10, 20, 10, 50, 20, 50, 20, 10)
# Convert to an ordered factor
ordered_fertilizer <- factor(fertilizer_levels, levels = c(10, 20, 50), ordered = TRUE)
# Print the result
```

```
print("Original Data:")

## [1] "Original Data:"

print(fertilizer_levels)

## [1] 10 10 10 20 20 50 10 20 10 50 20 50 20 10

print("Ordered Factor:")

## [1] "Ordered Factor:"

print(ordered_fertilizer)

## [1] 10 10 10 20 20 50 10 20 10 50 20 50 20 10

## Levels: 10 < 20 < 50</pre>
```