Week01_Code

Yanan Wu

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Working directory

Terminate script

```
i <- 1
while (i>0) {
  print('good')
}
```

Get help for activate libraries

```
help('dplyr')
?dplyr

# get help for all installed libraries
??dplyr
help.search('dplyr')
```

Variables

```
x <- 10
y <- 10
sum <- x + y  # Add x and y
product <- x * y  # Multiply x and y

print(x)  # Output the value of x
print(sum)  # Output the sum
print(product)  # Output the product
```

Changing Variable Values

```
x <- 15  # Reassign a new value to x
print(x)  # Output the updated value of x

# Variable Types
name <- "R Programming"  # Character
```

```
is_great <- TRUE         # Logical
pi_value <- 3.14         # Numeric
```

List

```
#creating a list
my_list <- list(
  name = "John Doe",
  age = 30,
  scores = c(85, 90, 95),
  passed = TRUE
)

# Print the list
print(my_list)

# Access by position
print(my_list[[1]])  # Outputs: "John Doe"

# Access by name
print(my_list[["age"]])  # Outputs: 30

# Using $
print(my_list$scores)  # Outputs: c(85, 90, 95)
```

Clean environment

```
rm(list=ls())
```

Read csv

```
data <- read.csv("parks_trees.csv")

# Display the first few rows of the dataset
head(data)

# Check the structure of the dataset
str(data)

# Summary statistics for each column
summary(data)
```

Display column names

```
colnames(data)

# Inspecting a specific column
data$neighborhood
```

```
# add new columns
data$data_source <- "Boston_GIS"
```