

Week7_lab1

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Choose a file using a file dialog

```
#Syntax:  
# file_path <- file.choose()  
# data <- read.csv(file_path)  
# print(data)  
  
## The above script is running fine when I run in interactive mode to  
# choose the file from my local, And having issue while downloading from RMD so commenting out this in
```

1. Reading Files

```
# Read as file with read mode  
file <- file("/Users/josephkambham/Downloads/MS_R/diabetes.csv", "r")  
data_as_lines <- readLines(file) # Read file contents as lines  
print(head(data_as_lines))
```

```
## [1] "Pregnancies,Glucose,BloodPressure,SkinThickness,Insulin,BMI,DiabetesPedigreeFunction,Age,Outcome"  
## [2] "6,148,72,35,0,33.6,0.627,50,1"  
## [3] "1,85,66,29,0,26.6,0.351,31,0"  
## [4] "8,183,64,0,0,23.3,0.672,32,1"  
## [5] "1,89,66,23,94,28.1,0.167,21,0"  
## [6] "0,137,40,35,168,43.1,2.288,33,1"
```

```
# Read as csv file  
csv_file <- "/Users/josephkambham/Downloads/MS_R/diabetes.csv"  
data_as_csv <- read.csv(csv_file) # Read file contents as a CSV file  
print(head(data_as_csv))
```

```
##   Pregnancies Glucose BloodPressure SkinThickness Insulin   BMI  
## 1           6     148           72           35         0 33.6  
## 2           1      85           66           29         0 26.6  
## 3           8     183           64            0         0 23.3  
## 4           1      89           66           23        94 28.1  
## 5           0     137           40           35       168 43.1  
## 6           5     116           74            0         0 25.6  
##   DiabetesPedigreeFunction Age Outcome
```

```
## 1          0.627  50      1
## 2          0.351  31      0
## 3          0.672  32      1
## 4          0.167  21      0
## 5          2.288  33      1
## 6          0.201  30      0
```

2. Writing to files

```
# Write to a text file
txt_file <- file("/Users/josephkambham/Downloads/MS_R/students.txt", 'w') # Open a file in write mode
data <- c("Machine Learning", "Artificial Intelligence", "Data Science")
writeLines(data, txt_file, sep = "\n") # Write data to a file as lines
close(txt_file)

# Write to a csv file
file <- "/Users/josephkambham/Downloads/MS_R/students.csv"
data <- data.frame(id = c(1,2,3), name=c("Jo","Mo","So"))
write.csv(data, file) # Write data to a file as a CSV file
```

3. Manipulating Files and Directories:

```
# Create a directory
dir.create("/Users/josephkambham/Downloads/MS_R/New/")
```

```
## Warning in dir.create("/Users/josephkambham/Downloads/MS_R/New/"):
## '/Users/josephkambham/Downloads/MS_R/New' already exists
```

```
# Rename a file - file.rename("old_file", "new_file")
file.rename("students.txt", "students_new.txt")
```

```
## Warning in file.rename("students.txt", "students_new.txt"): cannot rename file
## 'students.txt' to 'students_new.txt', reason 'No such file or directory'
```

```
## [1] FALSE
```

```
# List of files in the path
files <- list.files("/Users/josephkambham/Downloads/MS_R/")
print(files)
```

```
## [1] "Assignment 1 (4).docx" "covid_data_kerala.csv"
## [3] "diabetes.csv"         "fifa_data.csv"
## [5] "medicines.txt"       "New"
## [7] "students.csv"        "students.txt"
## [9] "superstore.xlsx"     "titanic.csv"
## [11] "Week 1 Lab (1) (1).docx" "Week 2 Lab (1).docx"
## [13] "Week 3 Lab (1).docx"  "Week 5 Lab (1).docx"
## [15] "Week 6 Lab (1).docx"  "Week 7 - Lab 1.docx"
```

```
## [17] "Week 8 - Lab 1.docx"      "Week1_lab.pdf"
## [19] "Week2_lab.pdf"            "Week3_lab.pdf"
## [21] "Week4_lab.pdf"            "Week5_lab.pdf"
## [23] "Week6_lab.pdf"
```

```
## To remove the files  file.remove("file_path") #
file_remove <- file.remove("/Users/josephkambham/Downloads/MS_R/matrix.xlsx")
```

```
## Warning in file.remove("/Users/josephkambham/Downloads/MS_R/matrix.xlsx"):
## cannot remove file '/Users/josephkambham/Downloads/MS_R/matrix.xlsx', reason
## 'No such file or directory'
```

```
print(file_remove)
```

```
## [1] FALSE
```

```
### Check if files exists or not
files_exists <- file.exists("/Users/josephkambham/Downloads/MS_R/titanic.csv")
print(files_exists)
```

```
## [1] TRUE
```

```
## move file to new loc
```

```
file_move <- file.copy("/Users/josephkambham/Downloads/MS_R/fifa_data.csv", "/Users/josephkambham/Downl
print(file_move)
```

```
## [1] FALSE
```

```
# Check if a directory exists- dir.exists("directory_path")
dir.exists("/Users/josephkambham/Downloads/")
```

```
## [1] TRUE
```