Assignment 3.1

1. How to Import SAS XPORT files into R with the foreign package?

Solution:

Step 1: We need to install a package named foreign.

Type the command **install.packages(“foreign”)** in the R Console.

Step 2: Now type the commands

First type the command **library(haven)** to include the package to read the sas file

Second type the command

**testFile <- system.file('extdata', 'test2.xpt', package="SASxport")**

**w <- read.xport(testFile)**

**class(w)**

**sapply(w, head**)

in the R Console

2. How to Import SAS Files into R with the Haven package?

Solution:

Step 1: We first need to install a package named Haven.

Type the command **install.packages(“haven”)** in the R Console

Step 2: Now type the commands

First type the command **library(haven)** to include the package to read the sas file

Second type the command **read\_sas("mtcars.sas7bdat")** in the R Console

3. How to read Weka Attribute-Relation File Format (ARFF) files in R?

Solution:

Step 1: We first need to install a package named RWeka

Type the command **install.packages(“RWeka”)** in the R Console.

Step 2: Now type the command

First type the command **library(RWeka)** to include the package to read ARFF file

Second type the command **read.arff(system.file("arff", "contact-lenses.arff", package = "RWeka"))** in the R Console.

4. How to read a heavy csv/tsv file using readr package?

Solution:

Step 1: We first need to install a package named readr

Type the command **install.packages(“readr”)** in the R Console.

Step 2: Now type the command

First type the command **library(readr)** to include the package to read csv/tsv file

Second type the command to read csv file **my\_data <- read.csv(“mtcars.csv”)** or **my\_data <- read.csv(file.choose())** to choose the file from the directory the file is present in.

To read the tsv file type the command **mydata <- read.tsv(“mtcars.tsv”)** or **my\_data <- read.tsv(file.choose())** to choose the file from the directory the file is present in.