**Experiment Title 2**

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**Semester: 6 Subject Code: 20CSP-376**

**Subject Name: Data Mining Lab Date of Performance: 09-03-2023**

1. **Aim/Overview of the practical:** To perform the statistical analysis of data.
2. **Tools used:** RStudio and RWeka
3. **Code:**

**Creating\_arrf\_file.R:**

library(RWeka)

setwd("C:\\Users\\hp\\Documents\\DATA MINING CODES\\EXPERIMENT 2")

getwd()

rating <- 1:4

animal <- c('koala', 'hedgehog', 'sloth', 'panda')

country <- c('Australia', 'Italy', 'Peru', 'China')

avg\_sleep\_hours <- c(21, 18, 17, 10)

super\_sleepers <- data.frame(rating, animal, country, avg\_sleep\_hours, stringAsFactors=FALSE)

print(super\_sleepers)

print(class(super\_sleepers))

print(str(super\_sleepers))

write.arff(super\_sleepers, file="super\_sleepers.arff")

**Experiment2.R:**

library("RWeka")

N = read.arff("super\_sleepers.arff")

print(N)

cat("\n\n\n")

print(head(N,2))

dim(N)

names(N)

N["animal"]

N["avg\_sleep\_hours"]

max(N["avg\_sleep\_hours"])

min(avg\_sleep\_hours)

sum(avg\_sleep\_hours)

mean(avg\_sleep\_hours)

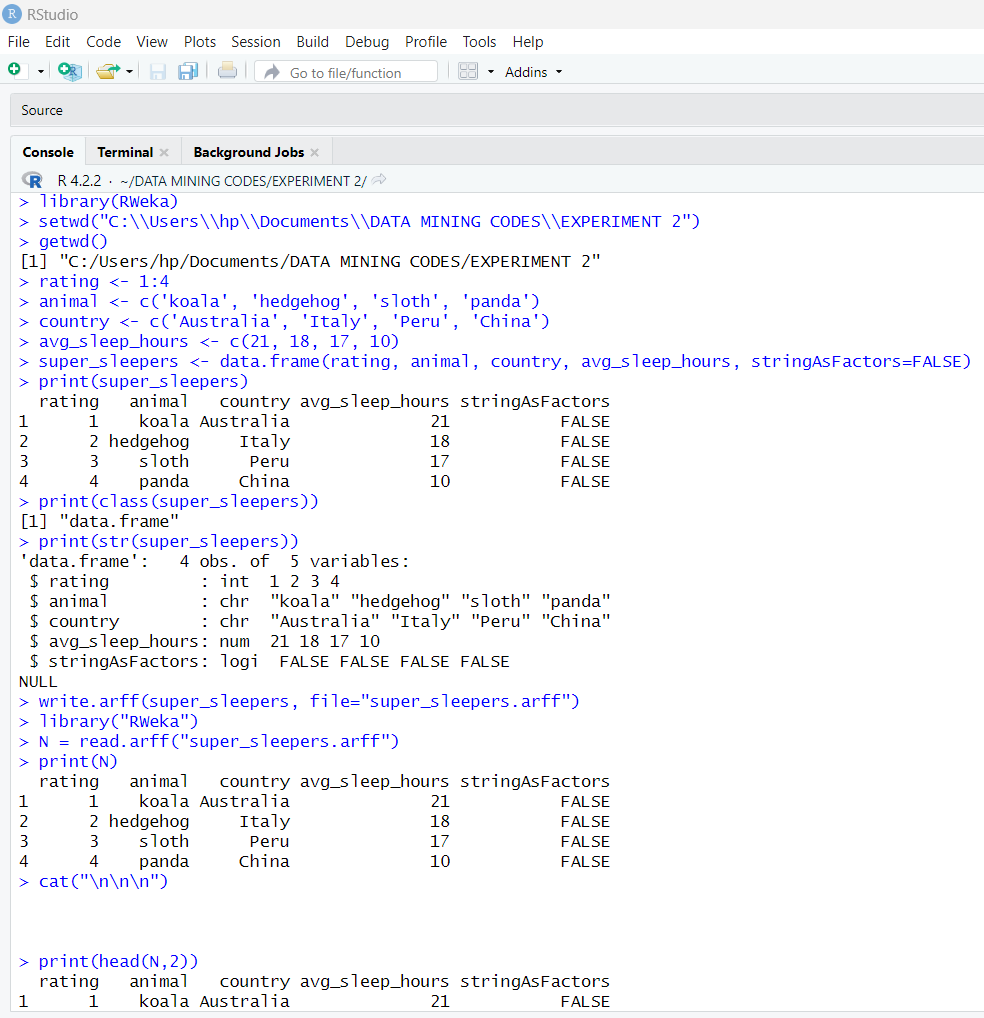
median(sort(avg\_sleep\_hours))

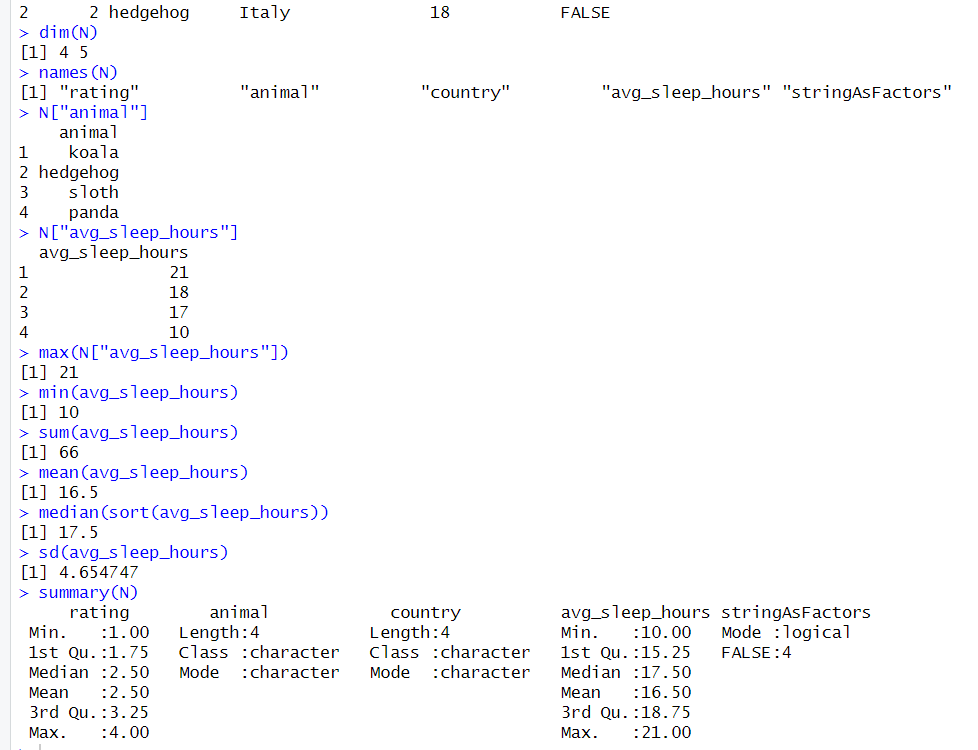
sd(avg\_sleep\_hours)

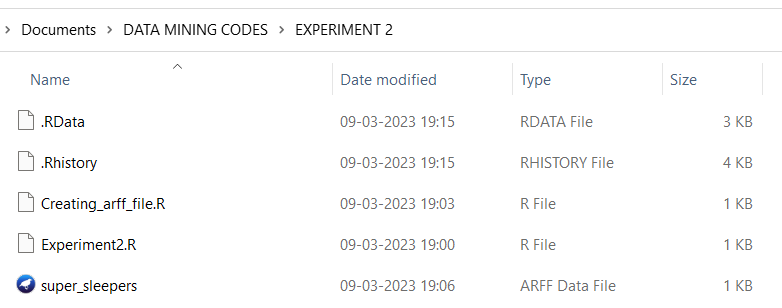
summary(N)

1. **Output:**

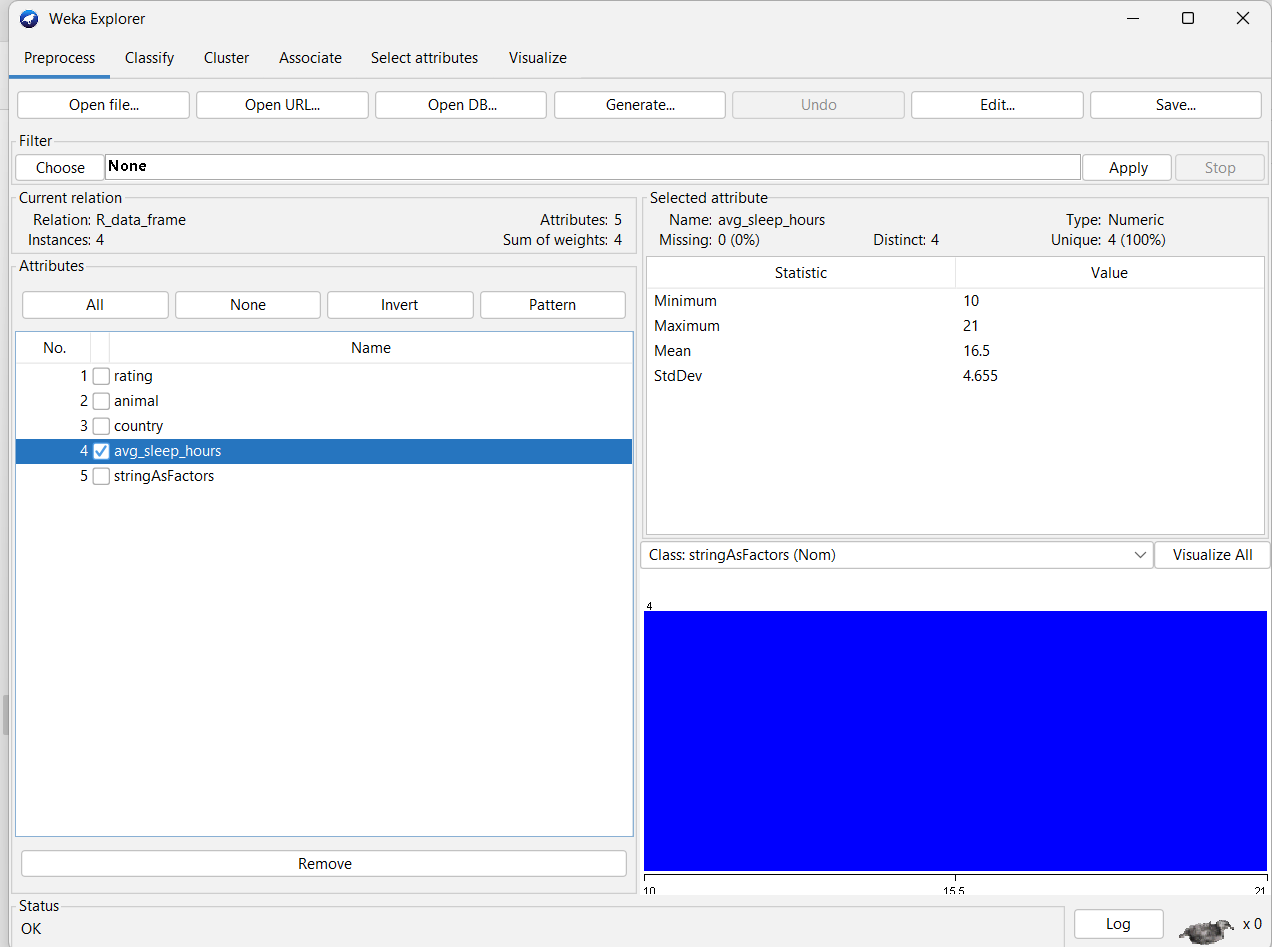
RStudio:





Files: 

Weka:

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1. **Observation:**

* Learnt how to use R and create a file in Rstudio.
* Learnt how to import files in weka.
* Learnt about different methods like setwd() and getwd()
* Learnt about statistical methods and their usage.