Experiment 1.2

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Branch: BE-CSE **Section/Group:605/B**
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Subject Name: Data Mining Lab **Subject Code:20CSP-376**

1. Aim:

⇨ To perform the statistical analysis of data.

2. Objective:

⇨ To represent the creation of file using R Studio and displaying the pattern on Weka Tool for futher extraction and analysis of knowledge.

3. Code And Output:

Program

```
#Library library library("RWeka")

setwd("D:\\Amar Doc\\6th sem\\DM lab") getwd()

#Creation Of Data Frame
rating<-1:4
animal<-c('Dog','Lion','Hen','Panda') country<-
c('India','Australia','USA','Singapore') avg_sleep_hours<-c(4,5,6,7) name<-
c("Amarjeet","Manas","Kushagra")

#make sure to set dtring as factors to false.
#son that string values are stored as characters and not vectors.

super_sleepers <- data.frame(rating,animal,country,avg_sleep_hours,stringsAsFactors =
FALSE)
print(super_sleepers) print(class(super_sleepers))
print(str(super_sleepers))
write.arff(super_sleepers, file="super_sleepers.arff")
```

```
N = read.arff("super_sleepers.arff")
```

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```
#print data print(N)
cat("\n\n\n")

#printing first two rows from print(head(N,2))

dim(N)

names(N) #show all
the animals
N["animal"]

#show average sleep hours
N["avg_sleep_hours"] #show max of
average sleep hours
max(N["avg_sleep_hours"])

#show min of average sleep hours
min(avg_sleep_hours)

#sum of average sleep hours
sum(avg_sleep_hours)

#mean of average sleep hours
mean(avg_sleep_hours)

#median of average sleep hours median(sort(avg_sleep_hours))
```

OUTPUT=

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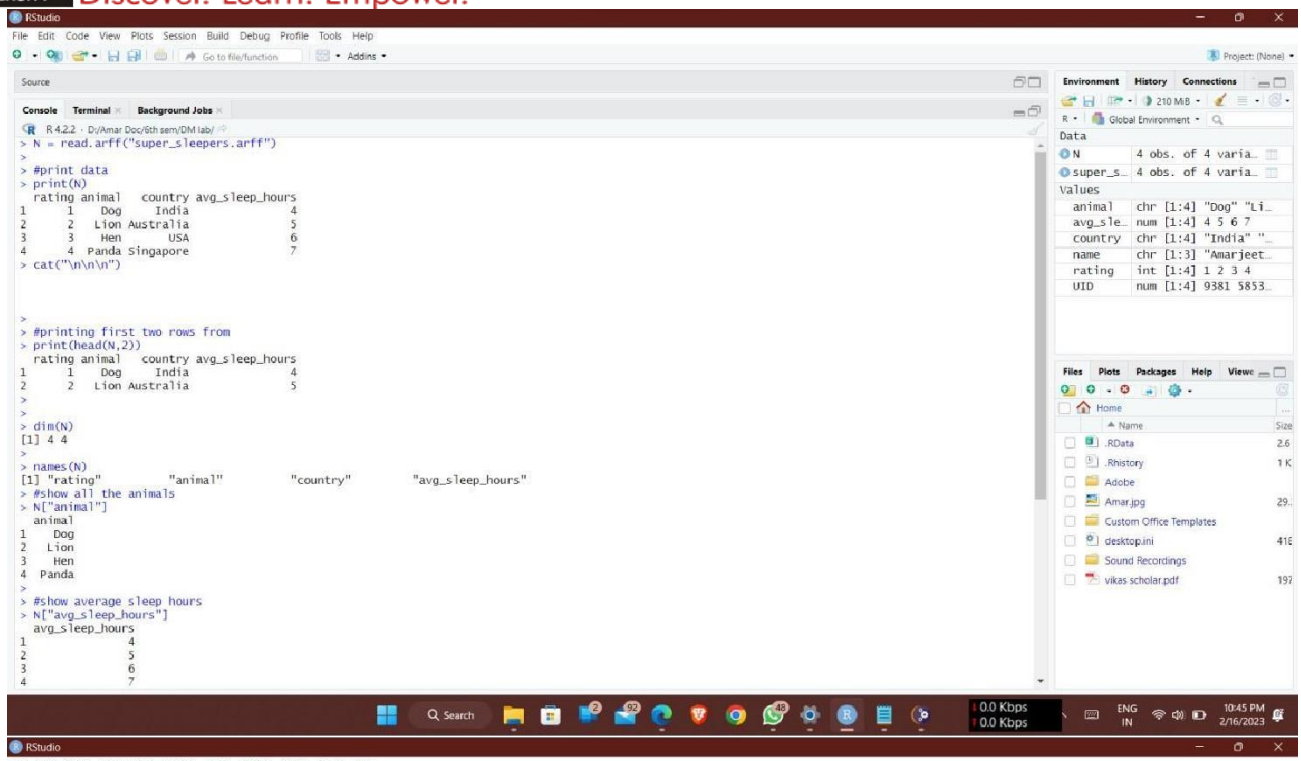

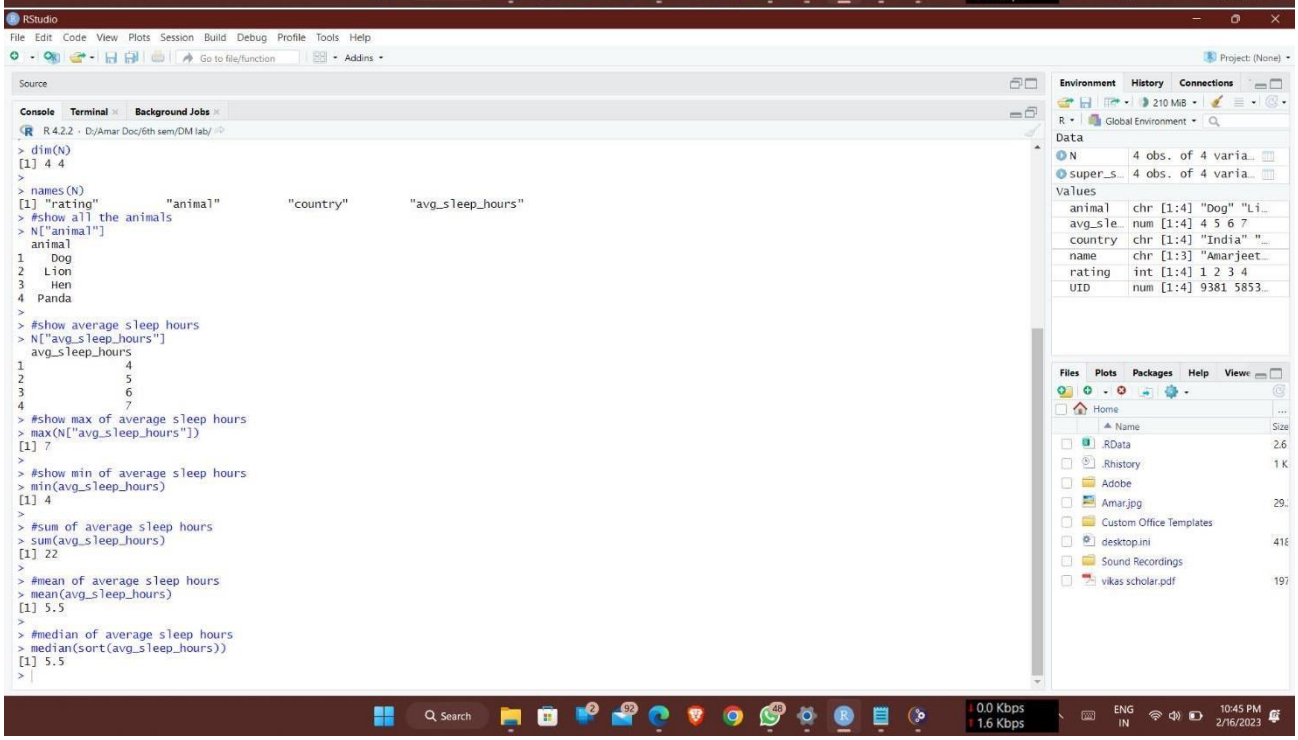

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