Experiment 1.2

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Semester: 6 **Date of Performance: 21/02/23**
Subject Name: DM LAB **Subject Code: 20CSP_376**

AIM :-

Using the pre-functions of r programming languages on the data frame of .arff file.

```
library(RWeka)
setwd("C:\\Users\\Yash Gupta\\Desktop\\Data")
getwd()

name <- c("Henry","Rahul","Harshal","Digi","Raghav","Kunal")
age <- c(20,19,21,20,21,20)
phone <- c("Android","Android","iOS","Android","iOS","ios")
uid <- c("20BCS1542","20BCS7898","20BCS5009","20BCS5689","20BCS1111","20BCS2054")
study_time <- c(5,4,2,7,4,3)
data <- data.frame(name, age, uid, phone, study_time)
print(data)
write.arff(data,file="exp2.arff")

R=read.arff("exp2.arff")
print(R)

print(head(R,2)) #top 2 values
dim(R) #shows the dimension of the data frame
names(R) # attribute
print(R["name"])
max(R["study_time"])
```

min(R["study_time"])

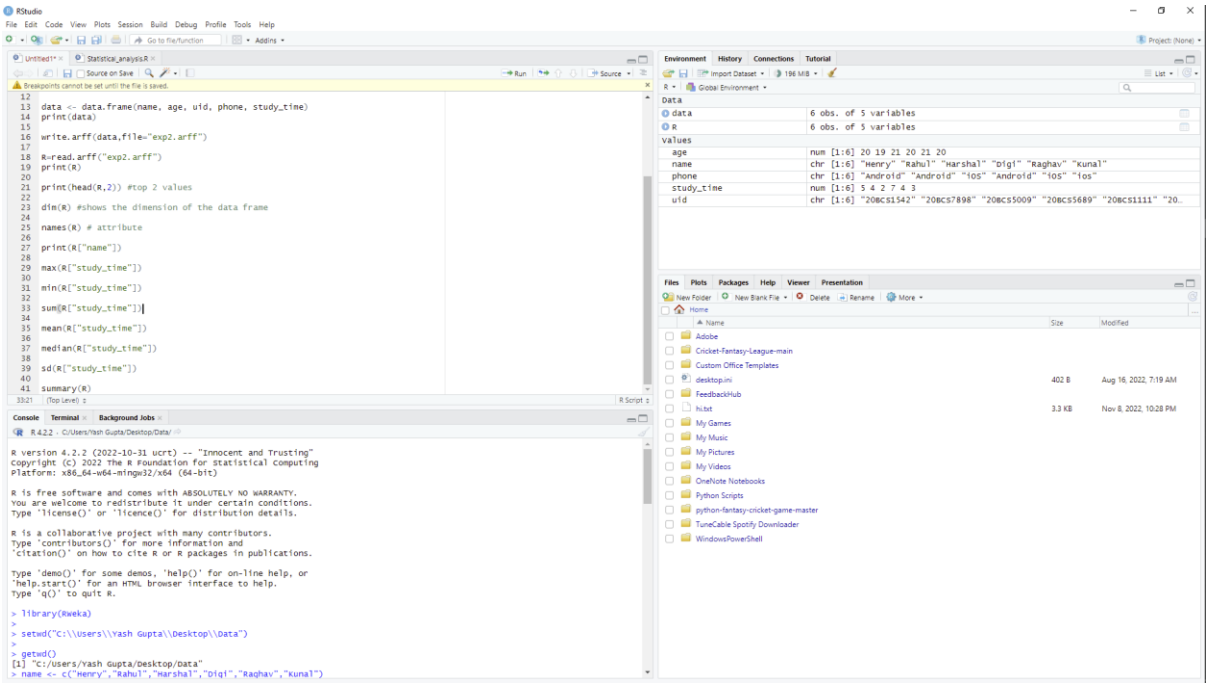
sum(R["study_time"])

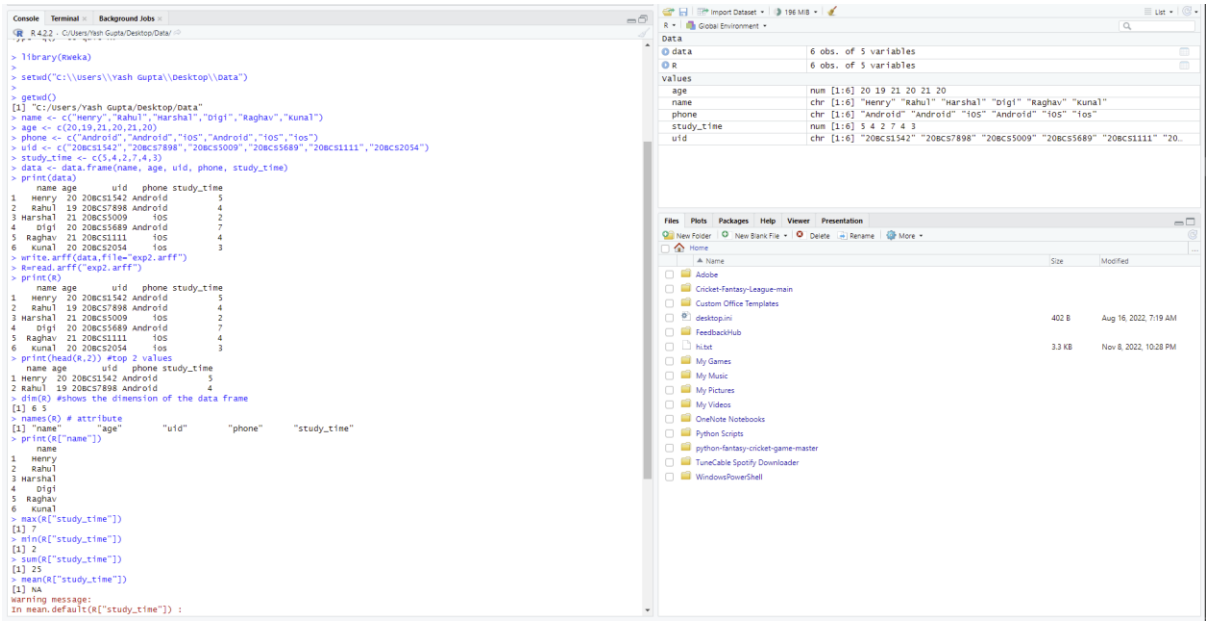
mean(R["study_time"])

median(R["study_time"])

sd(R["study_time"])

summary(R)





exp2 - Notepad

File Edit Format View Help

```
@relation R_data_frame

@attribute name string
@attribute age numeric
@attribute uid string
@attribute phone string
@attribute study_time numeric

@data
Henry,20,20BCS1542,Android,5
Rahul,19,20BCS7898,Android,4
Harshal,21,20BCS5009,iOS,2
Digi,20,20BCS5689,Android,7
Raghav,21,20BCS1111,iOS,4
Kunal,20,20BCS2054,ios,3
```

Ln 1, Col 1 | 100% | Windows (CRLF) | UTF-8

Weka Explorer

Preprocess | Classify | Cluster | Associate | Select attributes | Visualize

Open file... | Open URL... | Open DB... | Generate... | Undo | Edit... | Save...

Filter

Choose **None** | Apply | Stop

Current relation

Relation: R_data_frame
Instances: 6
Attributes: 5
Sum of weights: 6

Attributes

All | None | Invert | Pattern

No.	Name
1	name
2	age
3	uid
4	phone
5	study_time

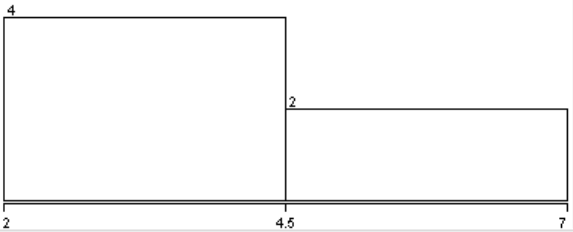
Remove

Selected attribute

Name: study_time
Missing: 0 (0%)
Distinct: 5
Type: Numeric
Unique: 4 (67%)

Statistic	Value
Minimum	2
Maximum	7
Mean	4.167
StdDev	1.722

Class: study_time (Num) | Visualize All



Status

OK

Log | x 0