



## Experiment1.1

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**Branch: CSE**

**Semester: 6<sup>th</sup>**

**Subject Name: DM LAB**

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**Section/Group: 701-A**

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### **1. Aim:**

Demonstration of preprocessing on .arff file using student data .arff.

### **2. Objective:**

learning about ARFF files and how to create ARFF File

### **3. Script and Output:**

#### **CODE-**

```
library(RWeka)

getwd()

rating <- 1:4

name <- c('apporva', 'prabh', 'akash', 'naman')

study_time <- c(2,4,2,3)

subject <- c('React', 'flutter', 'Kotlin', 'Fullstack')

toppers <- data.frame(rating,name,study_time,subject, stringsAsFactors = FALSE)

print(toppers)

print(class(toppers))

write.arff(toppers,file="toppers.arff")

getwd
```



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The RStudio interface shows a script with the following code:

```
1 library(Rwaka)
2 getwd()
3
4 rating <- 1:4
5 name <- c('apporva', 'prabh', 'akash', 'naman')
6 study_time <- c(2,4,2,3)
7 subject <- c('React', 'Flutter', 'Kotlin', 'Fullstack')
8
9 toppers <- data.frame(rating,name,study_time,subject, stringsAsFactors = FALSE)
10 print(toppers)
11
12 print(class(toppers))
13 write.arff(toppers,file="toppers.arff")
14 getwd()
```

The Environment pane shows the 'toppers' data frame with 4 observations and 4 variables:

values	
animal	chr [1:4] "koala" "hedgehog" "sloth" "panda"
country	chr [1:4] "Australia" "Italy" "Peru" "China"
name	chr [1:4] "akash" "gurudev" "pranam" "saumya"
rating	int [1:4] 1 2 3 4

The Files pane shows the 'toppers.arff' file in the project directory.

## OUTPUT-

The RStudio interface shows the output of the R script in the Console pane:

```
R 4.2.2 --
R version 4.2.2 (2022-10-31 ucrt) -- Innocent and Trusting
Copyright (C) 2022 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

[workspace loaded from ~/.RData]
```

The Environment pane shows the 'toppers' data frame with 4 observations and 4 variables:

values	
animal	chr [1:4] "koala" "hedgehog" "sloth" "panda"
country	chr [1:4] "Australia" "Italy" "Peru" "China"
name	chr [1:4] "akash" "gurudev" "pranam" "saumya"
rating	int [1:4] 1 2 3 4

The Files pane shows the 'toppers.arff' file in the project directory.

The 'toppers.arff' file content is shown in a Notepad window:

```
@relation R_data_frame
@attribute rating numeric
@attribute name string
@attribute study_time numeric
@attribute subject string
@data
1,akash,2,React
2,gurudev,4,Flutter
3,pranam,2,Kotlin
4,saumya,3,Fullstack
```