Experiment1.1

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Branch: BE-CSE   **Section/Group**: 20BCS_DM_705 A

Semester: 6th   **Date of Performance**:

Subject Name: Data Mining Lab   **Subject Code**: 20CSP-376

Aim: Demonstration of pre-processing on .arff file using student data .arff.

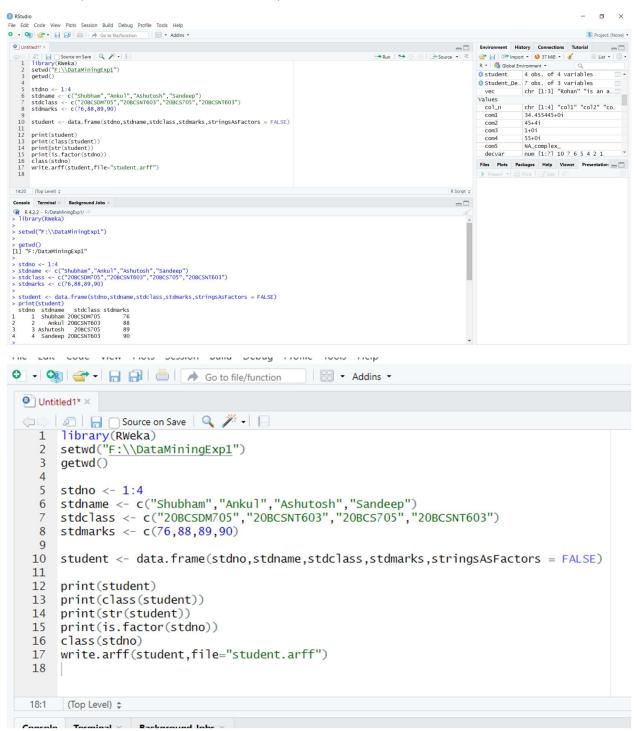**Objective**: we will be learning about ARFF files and how to create ARFF file

Script and Output:

Code:

```
library(RWeka)
setwd("F:\\DataMiningExp1")
getwd()
stdno <- 1:4
stdname <- c("Shubham","Mayank","Ashutosh","Sandeep")
stdclass <- c("20BCSDM705","20BCSNT603","20BCS705","20BCSNT603")
stdmarks <- c(76,88,89,90)
student <- data.frame(stdno,stdname,stdclass,stdmarks,stringsAsFactors = FALSE)
print(student)
print(class(student))
print(str(student))
print(is.factor(stdno))
class(stdno)
```

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


```
1  library(RWeka)
2  setwd("F:\\DataMiningExp1")
3  getwd()
4
5  stdno <- 1:4
6  stdname <- c("Shubham","Ankul","Ashutosh","Sandeep")
7  stdclass <- c("20BCSDM705","20BCSNT603","20BCS705","20BCSNT603")
8  stdmarks <- c(76,88,89,90)
9
10 student <- data.frame(stdno,stdname,stdclass,stdmarks,stringsAsFactors = FALSE)
11
12 print(student)
13 print(class(student))
14 print(str(student))
15 print(is.factor(stdno))
16 class(stdno)
17 write.arff(student,file="student.arff")
18
```

Output:

```
R RStudio
File  Edit  Code  View  Plots  Session  Build  Debug  Profile  Tools  Help

                    Go to file/function              Addins ▾

Source

Console   Terminal ×   Background Jobs ×

R   R 4.2.2 · F:/DataMiningExp1/
> library(RWeka)
>
> setwd("F:\\DataMiningExp1")
>
> getwd()
[1] "F:/DataMiningExp1"
>
> stdno <- 1:4
> stdname <- c("Shubham","Ankul","Ashutosh","Sandeep")
> stdclass <- c("20BCSDM705","20BCSNT603","20BCS705","20BCSNT603")
> stdmarks <- c(76,88,89,90)
>
> student <- data.frame(stdno,stdname,stdclass,stdmarks,stringsAsFactors = FALSE)
> print(student)
  stdno  stdname    stdclass stdmarks
1     1  Shubham 20BCSDM705       76
2     2    Ankul 20BCSNT603       88
3     3 Ashutosh   20BCS705       89
4     4  Sandeep 20BCSNT603       90
>
> print(class(student))
[1] "data.frame"
>
> print(str(student))
'data.frame':   4 obs. of  4 variables:
 $ stdno   : int  1 2 3 4
 $ stdname : chr  "Shubham" "Ankul" "Ashutosh" "Sandeep"
 $ stdclass: chr  "20BCSDM705" "20BCSNT603" "20BCS705" "20BCSNT603"
 $ stdmarks: num  76 88 89 90
NULL
>
> print(is.factor(stdno))
[1] FALSE
>
> class(stdno)
[1] "integer"
>
> write.arff(student,file="student.arff")
> |
```