



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Experiment1.1

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Section/Group: 714/A

Semester: 6th

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Subject Name: Data Mining Lab

Subject Code: 20CSP-376

1. Aim: Demonstration of preprocessing on .arff file using student data .arff.

2. Steps:

- Install RWeka package using command `install.packages("RWeka")`.
- Import the RWeka library.
- Set the directory of the workspace using `setwd()`.
- Create the table and use `data.frame()` to create data frame of the inserted data.
- To know the structure of the table we can write `print(str(data_frame_name))`.
- To see the details of the table `print(class(name_of_table))`.
- At last create the arff file with the command `write.arff(menu,file='menu.arff')`



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Code:

```
1 install.packages("RWEKA")
2
3 library(RWEKA)
4
5
6 setwd("D:\\drive d\\DM lab\\first exp")
7
8
9 getwd()
10
11 srno<-1:4
12 foods<-c('Frech Fries','Burgers','Pizza','Drinks')
13 price<-c(50,40,120,40)
14 rating<-c(4,5,5,3)
15
16 menu<-data.frame(srno,foods,price,rating)
17 print(menu)
18
19 print(class(menu))
20 print(str(menu))
21
22 write.arff(menu,file='menu.arff')|
```

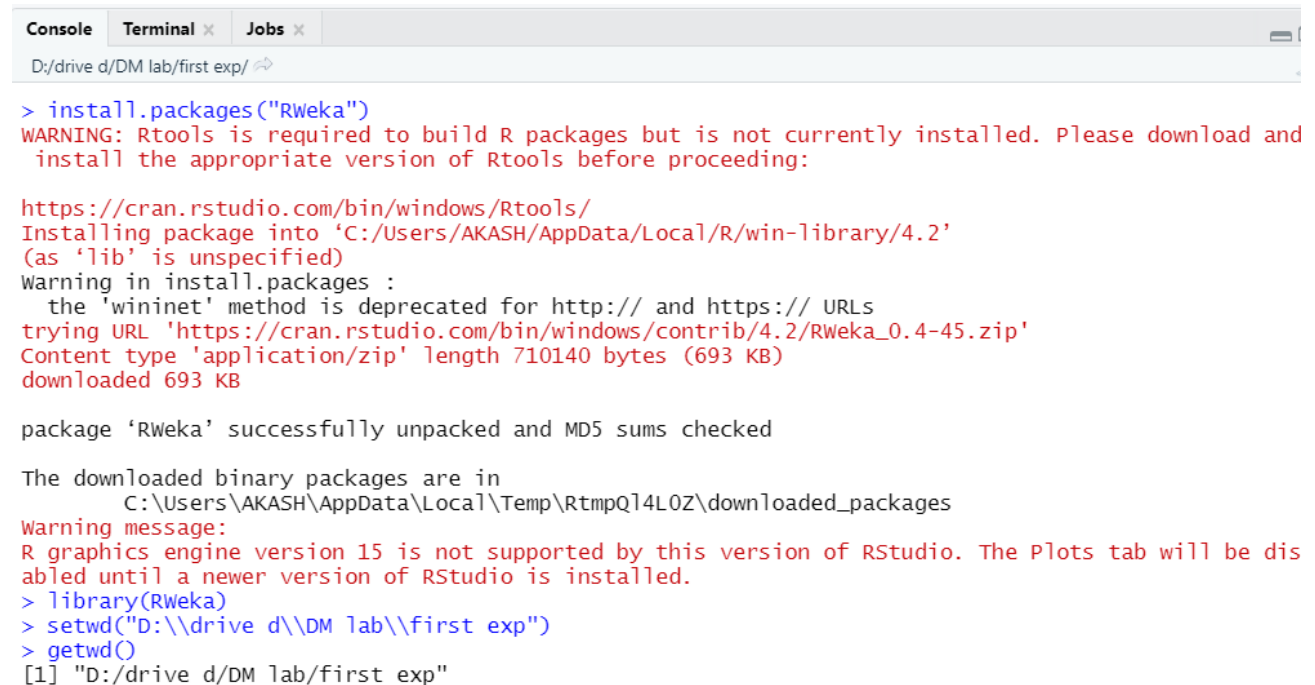
Commands and output:

```
install.packages("RWeka")
```

```
library(RWeka)
```

```
setwd("D:\\drive d\\DM lab\\first exp")
```

```
getwd()
```



```
Console Terminal x Jobs x
D:/drive d/DM lab/first exp/

> install.packages("RWeka")
WARNING: Rtools is required to build R packages but is not currently installed. Please download and
install the appropriate version of Rtools before proceeding:

https://cran.rstudio.com/bin/windows/Rtools/
Installing package into 'C:/Users/AKASH/AppData/Local/R/win-library/4.2'
(as 'lib' is unspecified)
Warning in install.packages :
  the 'wininet' method is deprecated for http:// and https:// URLs
trying URL 'https://cran.rstudio.com/bin/windows/contrib/4.2/RWeka_0.4-45.zip'
Content type 'application/zip' length 710140 bytes (693 KB)
downloaded 693 KB

package 'RWeka' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\Users\AKASH\AppData\Local\Temp\RtmpQ14LOZ\downloaded_packages
Warning message:
R graphics engine version 15 is not supported by this version of RStudio. The Plots tab will be dis
abled until a newer version of RStudio is installed.
> library(RWeka)
> setwd("D:\\drive d\\DM lab\\first exp")
> getwd()
[1] "D:/drive d/DM lab/first exp"
```

```
srno<-1:4
```

```
foods<-c('Frech Fries','Burgers','Pizza','Drinks')
```

```
price<-c(50,40,120,40)
```

```
rating<-c(4,5,5,3)
```

```
menu<-data.frame(srno,foods,price,rating)
```

```
print(menu)
```

```
> srno<-1:4
> foods<-c('Frech Fries','Burgers','Pizza','Drinks')
> price<-c(50,40,120,40)
> rating<-c(4,5,5,3)
> menu<-data.frame(srno,foods,price,rating)
> print(menu)
```

	srno	foods	price	rating
1	1	Frech Fries	50	4
2	2	Burgers	40	5
3	3	Pizza	120	5
4	4	Drinks	40	3

```
print(class(menu))
```

```
print(str(menu))
```

```
write.arff(menu,file='menu.arff')
```

```
> print(str(menu))
'data.frame': 4 obs. of 4 variables:
 $ srno : int 1 2 3 4
 $ foods : chr "Frech Fries" "Burgers" "Pizza" "Drinks"
 $ price : num 50 40 120 40
 $ rating: num 4 5 5 3
NULL
> write.arff(menu,file='menu.arff')
> source('D:/drive d/DM lab/first exp/akashkumar.R')
>
```



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.arff file

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
+ - [Icons] Go to file/function [Icons] Addins -
menu.arff x akashkumar.R x
1 @relation R_data_frame
2
3 @attribute srno numeric
4 @attribute foods string
5 @attribute price numeric
6 @attribute rating numeric
7
8 @data
9 1,'Frech Fries',50,4
10 2,Burgers,40,5
11 3,Pizza,120,5
12 4,Drinks,40,3
13 |
13:1 Text file
Console Terminal x Jobs x
```