Experiment 1.2

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

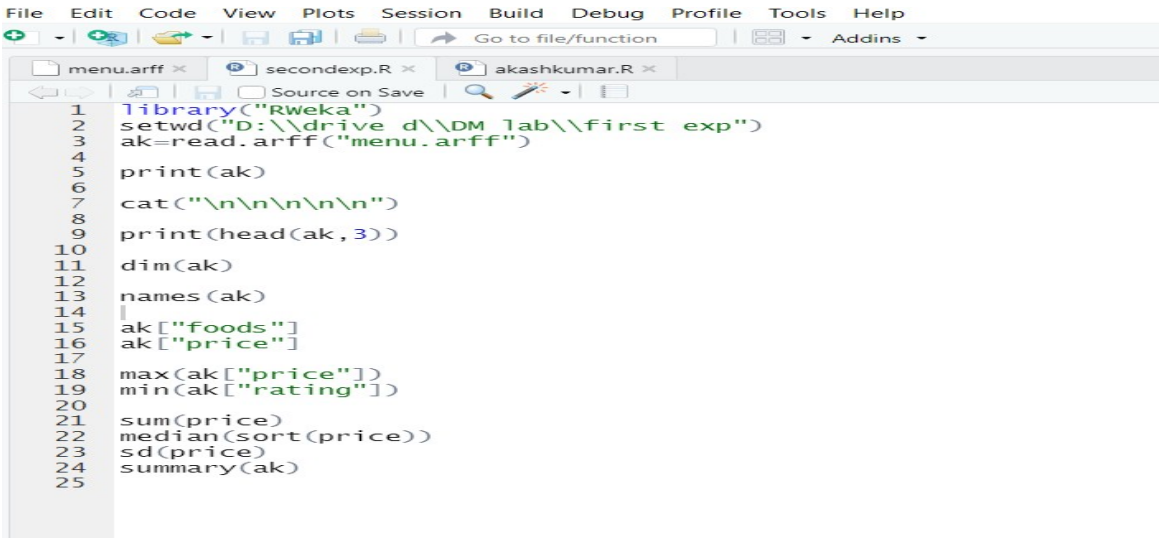
Aim: To perform the statistical analysis of data.

Objective: To analyse the .arff file we created in first experiment.

Steps:

- Install and import the RWeka library.
- Set the working directory.
- Read the arff file and store it.
- Now we can perform different operation on that.

Code:

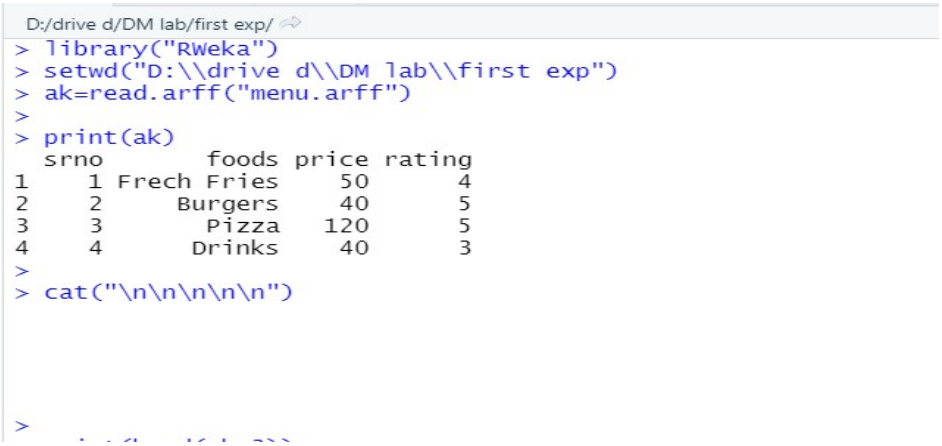


Code and its output:

ak=read.arff("menu.arff")-Reads the arff file.

print(ak)- Prints the table's data

cat("\n\n\n\n\n")- here are printing 5 blank lines



```
D:/drive d/DM lab/first exp/
> library("RWeka")
> setwd("D:\\drive d\\DM lab\\first exp")
> ak=read.arff("menu.arff")
>
> print(ak)
  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
>
> cat("\n\n\n\n\n")
```

print(head(ak,3))- prints first three rows. dim(ak)-it prints the dimension of the table. names(ak)- it prints the column names.

```
> print(head(ak,3))
  srno        foods price rating
1    1 Frech Fries    50      4
2    2      Burgers    40      5
3    3        Pizza   120      5
>
> dim(ak)
[1] 4 4
>
> names(ak)
[1] "srno"   "foods"  "price"  "rating"
```

ak["foods"] – It prints the details of column foods. ak["price"] - It prints the details of column price.

max(ak["price"])- It prints the maximum of all price.

min(ak["rating"]) – It prints the minimum of all the rating sum(price) – This prints the sum of all prices. median(sort(price)) – Prints the median of prices data. sd(price) – Standard deviation. summary(ak)- Summary of the data of the table.

```
> ak["foods"]
        foods
1 Frech Fries
2     Burgers
3       Pizza
4      Drinks
> ak["price"]
  price
1    50
2    40
3   120
4    40
>
> max(ak["price"])
[1] 120
> min(ak["rating"])
[1] 3
>
> sum(price)
[1] 250
> median(sort(price))
[1] 45
> sd(price)
[1] 38.6221
> summary(ak)
      srno         foods               price          rating
 Min.   :1.00   Length:4           Min.   : 40.0   Min.   :3.00
 1st Qu.:1.75   Class :character   1st Qu.: 40.0   1st Qu.:3.75
 Median :2.50   Mode  :character   Median : 45.0   Median :4.50
 Mean   :2.50                      Mean   : 62.5   Mean   :4.25
 3rd Qu.:3.25                      3rd Qu.: 67.5   3rd Qu.:5.00
 Max.   :4.00                      Max.   :120.0   Max.   :5.00
>
```