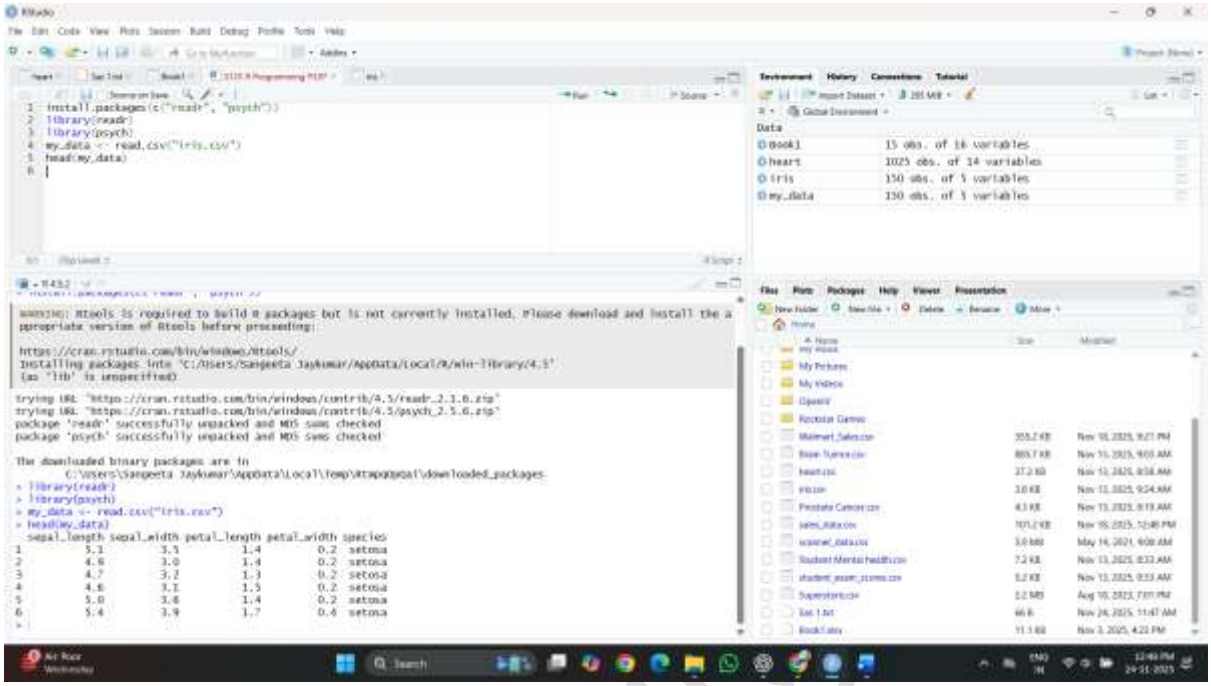
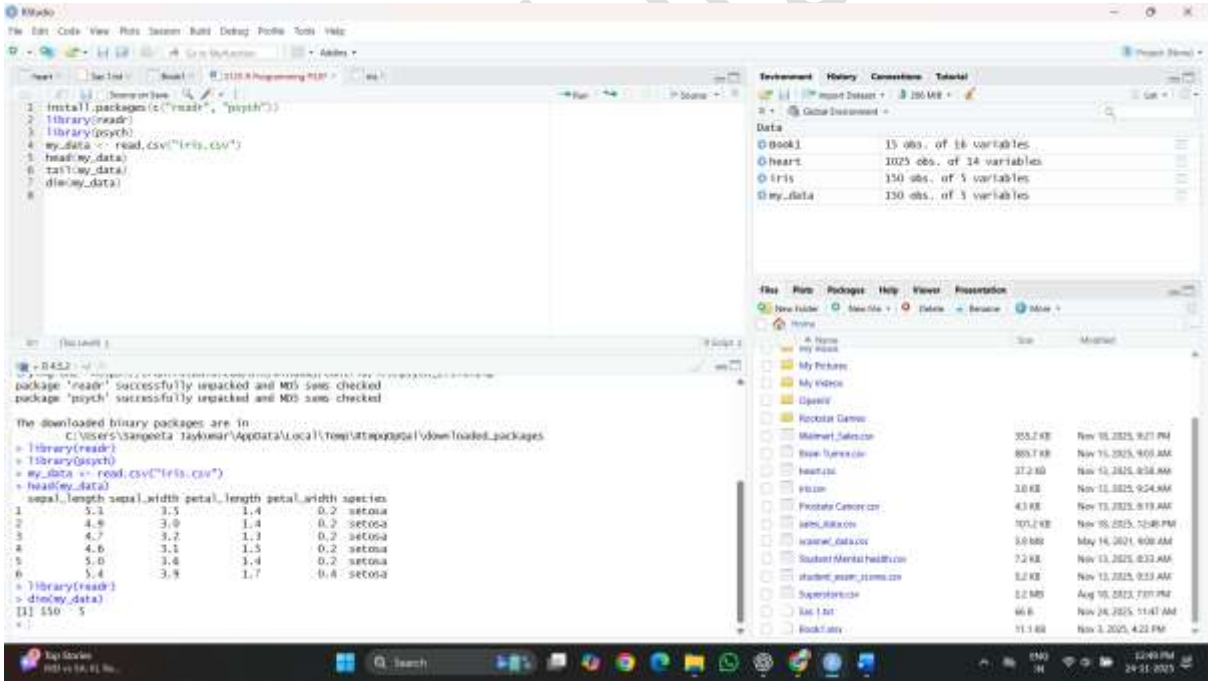
Sheth L.U.J & Sir M.V College
SAS/SPSS/R
Practical no.3

Aim: Exploring data: View() or print() (R).

Output:





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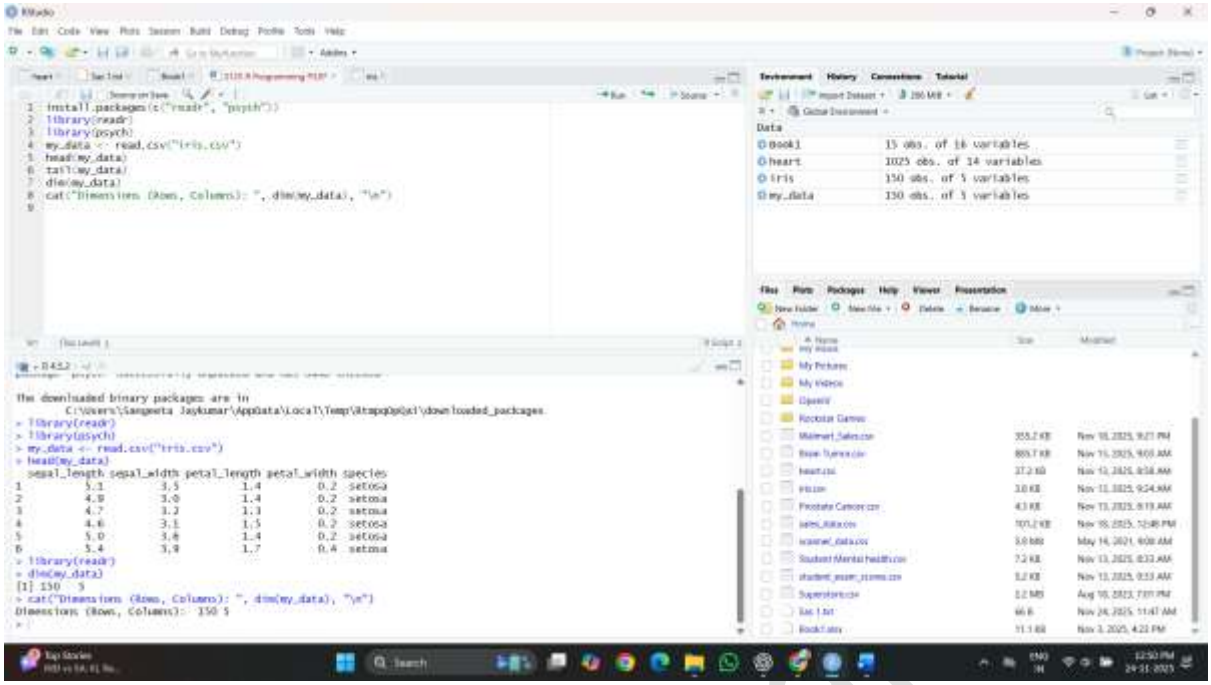

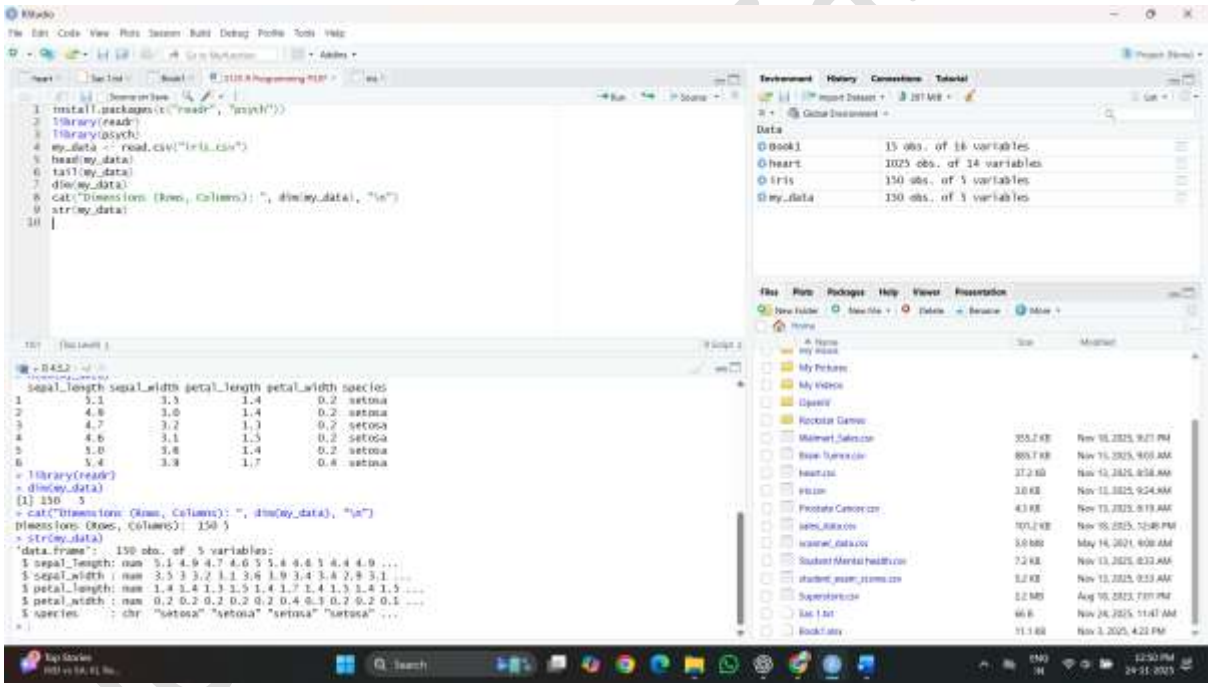

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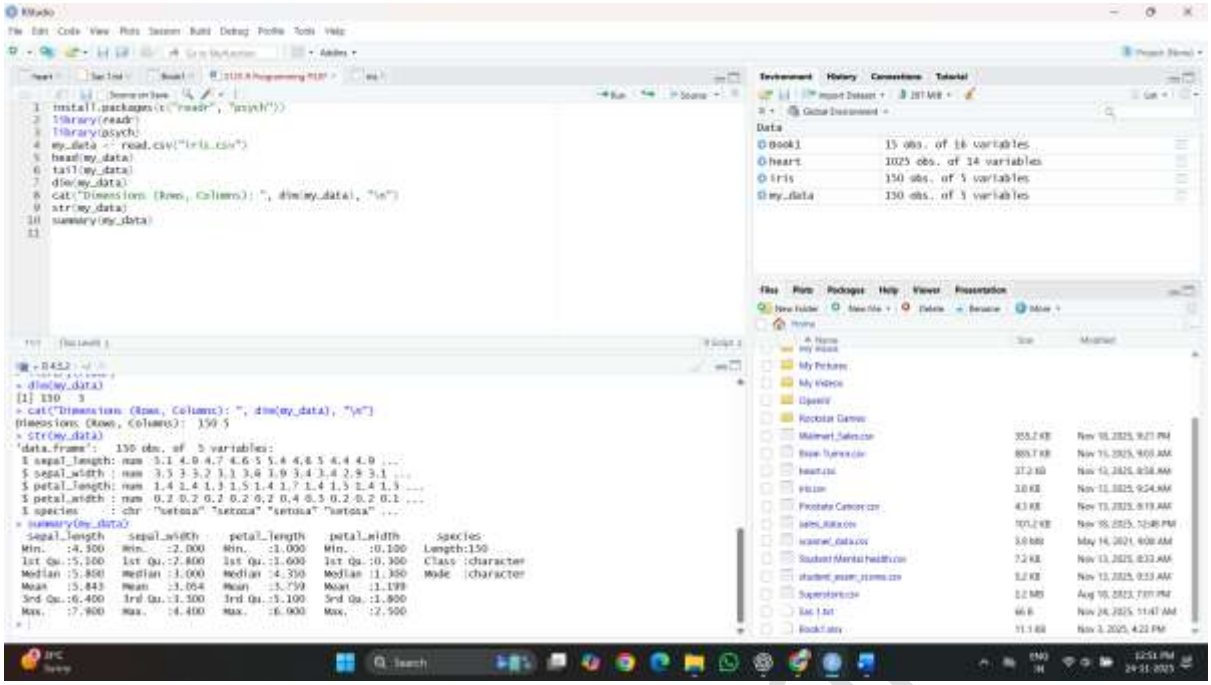

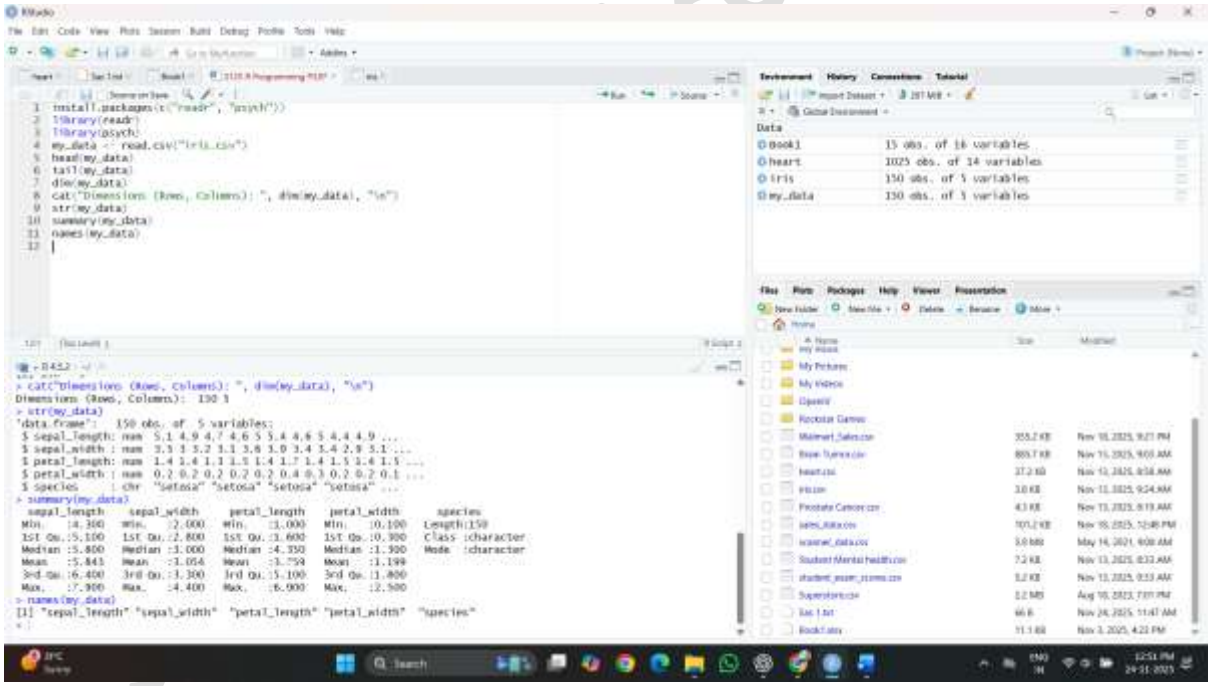

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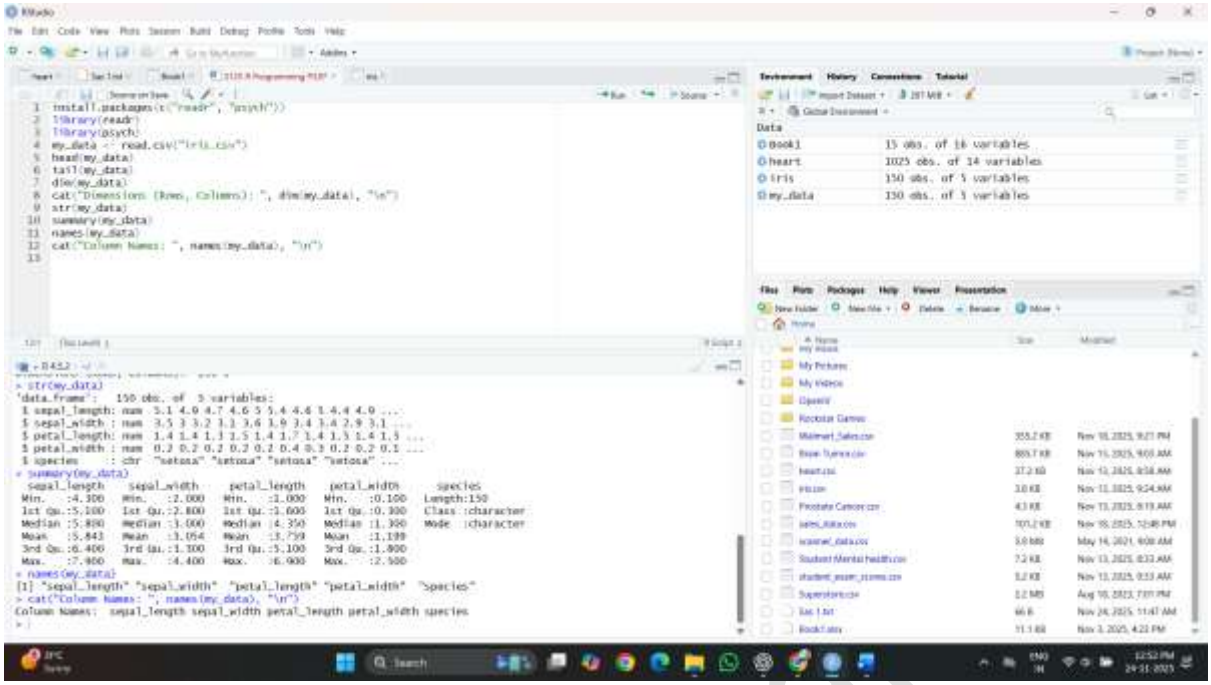
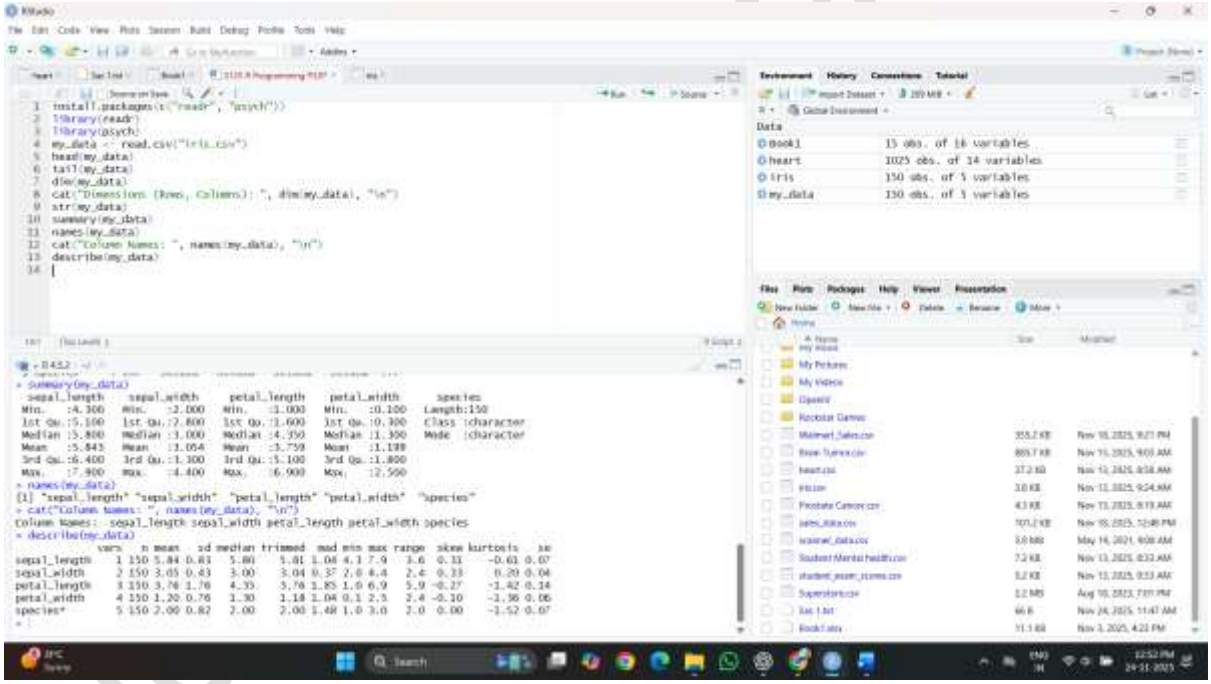


```
install.packages(c("readr", "psych"))
library(readr)
library(psych)
my_data <- read.csv("iris.csv")
head(my_data)
tail(my_data)
dim(my_data)
cat("Dimensions (Rows, Columns): ", dim(my_data), "\n")
str(my_data)
summary(my_data)
names(my_data)
cat("Column Names: ", names(my_data), "\n")
```

```
> str(my_data)
'data.frame':   150 obs. of  5 variables:
 $ sepal_length: num  5.1 4.9 4.7 4.6 5 5.4 4.6 5 4.4 4.9 ...
 $ sepal_width : num  3.5 3 3.2 3.1 3.6 3.9 3.4 3.4 2.9 3.1 ...
 $ petal_length: num  1.4 1.4 1.3 1.5 1.4 1.7 1.4 1.5 1.4 1.5 ...
 $ petal_width : num  0.2 0.2 0.2 0.2 0.2 0.4 0.3 0.2 0.2 0.1 ...
 $ species     : chr  "setosa" "setosa" "setosa" "setosa" "setosa" ...
> summary(my_data)
  sepal_length    sepal_width     petal_length    petal_width      species
 Min.   :4.300   Min.   :2.000   Min.   :1.000   Min.   :0.100   Length:150
 1st Qu.:5.100   1st Qu.:2.800   1st Qu.:1.600   1st Qu.:0.300   Class :character
 Median :5.800   Median :3.000   Median :4.350   Median :1.300   Mode  :character
 Mean   :5.843   Mean   :3.054   Mean   :3.759   Mean   :1.199
 3rd Qu.:6.400   3rd Qu.:3.300   3rd Qu.:5.100   3rd Qu.:1.800
 Max.   :7.900   Max.   :4.400   Max.   :6.900   Max.   :2.500
> names(my_data)
[1] "sepal_length" "sepal_width"  "petal_length" "petal_width"  "species"
> cat("Column Names: ", names(my_data), "\n")
Column Names:  sepal_length sepal_width petal_length petal_width species
```



```
describe(my_data)
```

```
> describe(my_data)
             vars   n mean   sd median trimmed  mad min max range  skew kurtosis   se
sepal_length    1 150 5.84 0.83   5.80    5.81 1.04 4.3 7.9   3.6  0.31    -0.61 0.07
sepal_width     2 150 3.05 0.43   3.00    3.04 0.37 2.0 4.4   2.4  0.33     0.20 0.04
petal_length    3 150 3.76 1.76   4.35    3.76 1.85 1.0 6.9   5.9 -0.27    -1.42 0.14
petal_width     4 150 1.20 0.76   1.30    1.18 1.04 0.1 2.5   2.4 -0.10    -1.36 0.06
species*        5 150 2.00 0.82   2.00    2.00 1.48 1.0 3.0   2.0  0.00    -1.52 0.07
```

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