



Final practical

Student Name: Krishan Chand

Branch: BE- CSE

Semester: 5

Subject Name: AIML Lab

UID: 19bcs2560

Section/Group: CSE-11 'B'

Date of Performance: 29/11/2021

Subject Code: CSP - 309

1. Aim/Overview of the practical:

To create and manipulate Data Frames using data.frame() function.

2. Which logistics used:

Software: R-Studio

3. Code:

```
# Create the data frame.
 emp.data <- data.frame(</pre>
emp_id = c (1:5),
emp_name = c("Rick","Dan","Michelle","Ryan","Gary"),
salary = c(623.3,515.2,611.0,729.0,843.25),
 start_date = as.Date(c("2012-01-01", "2013-09-23", "2014-11-15", "2014-05-11",
            "2015-03-27")),
stringsAsFactors = FALSE
# Print the data frame.
print(emp.data)
# Get the structure of the data frame.
str(emp.data)
# Print the summary.
print(summary(emp.data))
# Extract Specific columns.
result <- data.frame(emp.data\semp name,emp.data\salary)
print(result)
# Extract first two rows.
result <- emp.data[1:2,]
print(result)
# Extract 3rd and 5th row with 2nd and 4th column.
result \leftarrow emp.data[c(3,5),c(2,4)]
print(result)
 #Add the "dept" coulmn.
 emp.data$dept <- c("IT","Operations","IT","HR","Finance")
 v <- emp.data
 print(v)
```

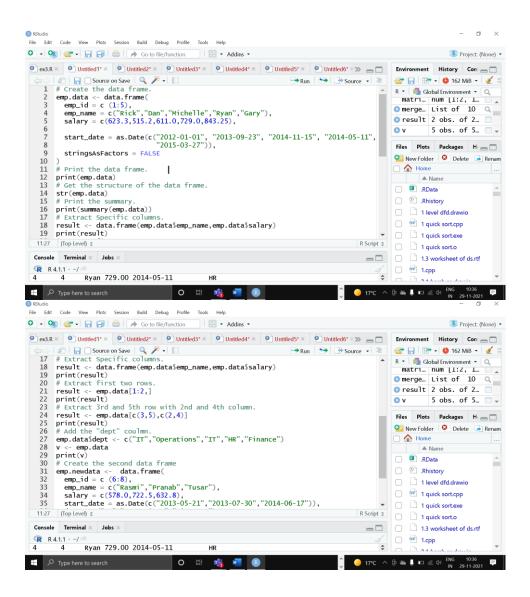






```
# Create the second data frame emp.newdata <- data.frame( emp_id = c (6:8), emp_name = c("Rasmi","Pranab","Tusar"), salary = c(578.0,722.5,632.8), start_date = as.Date(c("2013-05-21","2013-07-30","2014-06-17")), dept = c("IT","Operations","Fianance"), stringsAsFactors = FALSE )

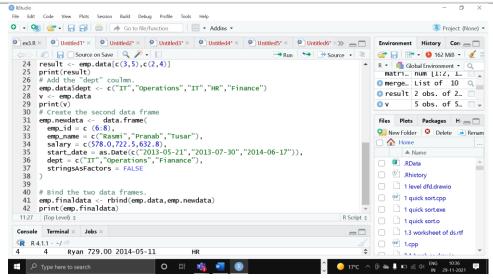
# Bind the two data frames. emp.finaldata <- rbind(emp.data,emp.newdata) print(emp.finaldata)
```



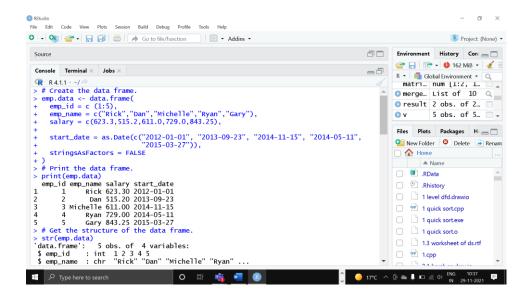








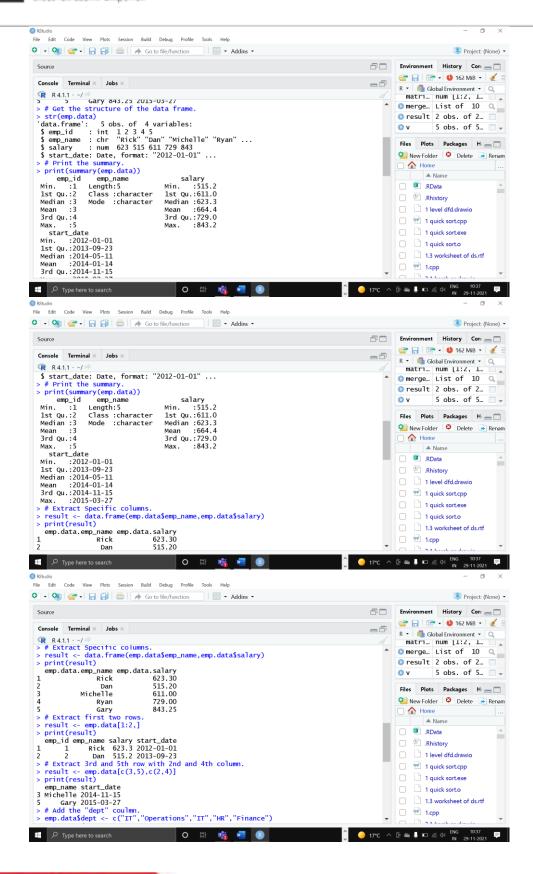
Output:







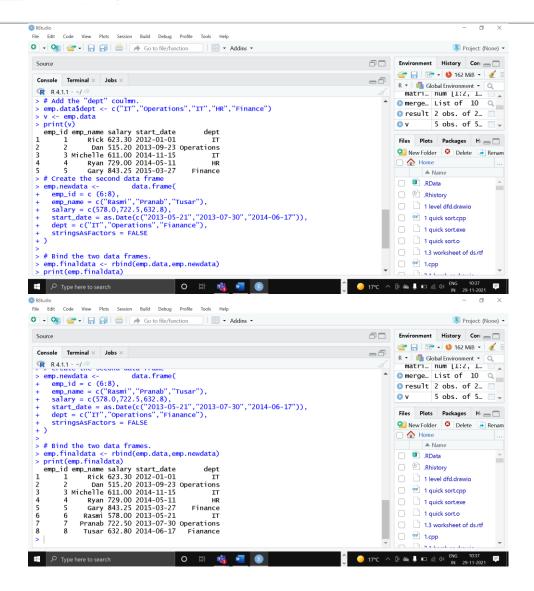












Learning outcomes (What I have learnt):

- **1.** I have learnt about the R studio.
- **2.** I have learnt about the R programming language.
- 3. I have learnt about vectors in R

Evaluation Grid

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			







2.		
3.		

