SESSION 4

Foundational R Programming - II  
Assignment – 1

Problem Statement:

df1 = data.frame(CustId = c(1:6), Product = c(rep("TV", 3), rep("Radio", 3)))

df2 = data.frame(CustId = c(2, 4, 6), State = c(rep("Texas", 2), rep("NYC", 1)))

df1 #left table

df2 #right table

For the above given data frames and tables perform the following operations:

1. Return only the rows in which the left table have match

2. Return all rows from both tables, join records from the left which have matching keys in the right table.

df1 = data.frame(CustId = c(1:6), Product = c(rep("TV", 3), rep("Radio", 3)))  
df2 = data.frame(CustId = c(2, 4, 6), State = c(rep("Texas", 2), rep("NYC", 1)))  
df1 #left table

## CustId Product  
## 1 1 TV  
## 2 2 TV  
## 3 3 TV  
## 4 4 Radio  
## 5 5 Radio  
## 6 6 Radio

df2 #right table

## CustId State  
## 1 2 Texas  
## 2 4 Texas  
## 3 6 NYC

#Return only the rows in which the left table have match  
merge(df1, df2)

## CustId Product State  
## 1 2 TV Texas  
## 2 4 Radio Texas  
## 3 6 Radio NYC

#Return all rows from both tables, join records from the left which have matching keys in the right table.  
merge(x = df1, y = df2, by = "CustId", all = TRUE)

## CustId Product State  
## 1 1 TV <NA>  
## 2 2 TV Texas  
## 3 3 TV <NA>  
## 4 4 Radio Texas  
## 5 5 Radio <NA>  
## 6 6 Radio NYC