**Assignment 2.3**

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.

**Answer –** The df looks like this

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

> merge(x=df1, y=df2, by = "CustId",all.x=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

> 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