Creating Data Frames in R

Using the data.frames() in R, we can create the data frames
Read the documentation for data.frame in Rstudio,
Using the **help(data.frame)**

```
# Creating a dataframe
# Example: RPI Weather dataframe.

days <- c('Mon', 'Tue','Wed','Thur','Fri','Sat','Sun') #  days
temp <- c(28,30.5,32,31.2,29.3,27.9,26.4) # Temperature in F' during the winter :)
snowed <- c('T','T','F','F','T','T','F') # Snowed on that day: T = TRUE, F= FALSE
help("data.frame")
RPI_Weather_Week <- data.frame(days,temp,snowed) # creating the dataframe using the data.frame() function

RPI_Weather_Week
head(RPI_Weather_Week) # head of the data frame, NOTE: it will show only 6 rows, usually head() function shows the
# first 6 rows of the dataframe, here we have only 7 rows in our dataframe.

str(RPI_Weather_Week) # we can take a look at the structure of the dataframe using the str() function.

summary(RPI_Weather_Week) # summary of the dataframe using the summary() function
```

Data frames

```
RPI_Weather_Week[1,] # showing the 1st row and all the columns
RPI_Weather_Week[,1] # showiing the 1st coulmn and all the rows

RPI_Weather_Week[,'snowed']
RPI_Weather_Week[,'days']
RPI_Weather_Week[,'temp']
RPI_Weather_Week[1:5,c("days","temp")]
RPI_Weather_Week$temp
subset(RPI_Weather_Week,subset=snowed==TRUE)

sorted.snowed <- order(RPI_Weather_Week['snowed'])
sorted.snowed
RPI_Weather_Week[sorted.snowed,]
```

```r
# RPI_Weather_Week[descending_snowed,]
dec.snow <- order(-RPI_Weather_Week$temp)
dec.snow
# Creating Dataframes
# creating an empty dataframe
empty.DataFrame <- data.frame()
v1 <- 1:10
v1
letters
v2 <- letters[1:10]
df <- data.frame(col.name.1 = v1,col.name.2 = v2)
df
# importing data and exporting data
# writing to a CSV file:
write.csv(df,file = 'saved_df1.csv')
df2 <- read.csv('saved_df1.csv')
df2
```