Module 7 Assignment

```
# load the shiny library
library(shiny)
# load the "app2data"
appdata=read.csv("C:/Users/TSADO VICTOR/Desktop/R to Data Manipulation/shinyR/app2data.csv")
appdata
View(appdata)
head(appdata)
str(appdata)
# no of observations
dim(appdata)
nrow(appdata)
# no of variables
ncol(appdata)
head(appdata)
#total number of variables
Total_number_of_variable =sum(appdata$var1,appdata$var2,appdata$var3,appdata$var4)
# summary number of continuous variables.
describe(appdata)
con_var=table(appdata$cyl,appdata$var1,appdata$var2,appdata$var3,appdata$var4)
con_var
# number of categorical variables
cat_var =table(appdata$manufacturer,appdata$trans)
cat_var
# number of variables which have missing values
missing_values=is.na(appdata)
missing_values
which(is.na(appdata))
```

```
# Module 7 in R
# Shinyr
library(shiny)
# Load dataset
app2 = read.csv("C:/Users/TSADO VICTOR/Desktop/R to Data Manipulation/shinyR/app2data.csv")
app2
ui <- fluidPage(
 titlePanel("Basic DataTable"),
  fluidRow(
  column(4,
       selectInput("man",
                   "Manufacturer:",
                   c("All",
                     unique(as.character(app2$manufacturer))))
  ),
  column(4,
       selectInput("trans",
                   "Transmission:",
                   c("All",
                     unique(as.character(app2$trans))))
  ),
  column(4,
       selectInput("cyl",
                   "Cylinders:",
                   c("All",
                     unique(as.character(app2$cyl))))
  )
 ),
 # Create a new row for the table.
 fluidRow(
  DT::dataTableOutput("table")
```

```
  )
)
server <- function(input, output) {
    output$table <- DT::renderDataTable(DT::datatable({
    data <- app2
    if (input$man != "All") {
      data <- data[data$manufacturer == input$man,]
    }
    if (input$cyl != "All") {
      data <- data[data$cyl == input$cyl,]
    }
    if (input$trans != "All") {
      data <- data[data$trans == input$trans,]
    }
    data
  }))
  }
shinyApp(ui=ui,server = server)
```