**Name: Abinash Satapathy**

**Reg. no.: 16BCE0081**

**Data Visualisation**

**Review 3**

Dataset name: Global Surface Temperature

Data source: <https://www.kaggle.com/berkeleyearth/climate-change-earth-surface-temperature-data>

Code:

library(shiny)

library(plotly)

library(ggplot2)

library(ggthemes)

library(data.table) library(tidyr)

library('tidyr')

data <- read.csv('Data/GlobalLandTemperaturesByState.csv', TRUE,",")

head(data)

row.has.na <- apply(data, 1, function(x){any(is.na(x))})

sum(row.has.na)

data <- data[!row.has.na,]

data <- separate(data,col = dt, into = c("Year", "Month", "Day"), convert = TRUE)

data<- filter(data,Year>1930)

shinyServer(

function(input,output) {

output$myplot <- renderPlot( {

data\_new <- filter(data,Country==input$plot\_ctry)

data\_new %>%

group\_by(Year) %>%

summarise(Temp = mean(AverageTemperature)) -> data\_new1

data\_new <- filter(data,Country==input$plot\_ctry)

data\_new %>%

filter(Year>1930) %>%

group\_by(Year) %>%

summarise(Temp = mean(AverageTemperature)) ->data\_new1

qplot(Year,Temp, data=data\_new1, main="Average Temperature 1930-2013",

geom=c("line","jitter","smooth"))+ aes(colour = Temp) +

scale\_color\_gradient(low="yellow", high="red")

})

}

)

