Name: Shobhit Agrawal Subject: CSE3050 - Data Visualization and Presentation

Date: 13th February, 2023 Reg. No.: 20BDS0162 Slot: L31+L32 Faculty: Dr. Prakash M.

Exercise Number - 3

Dashboard in R

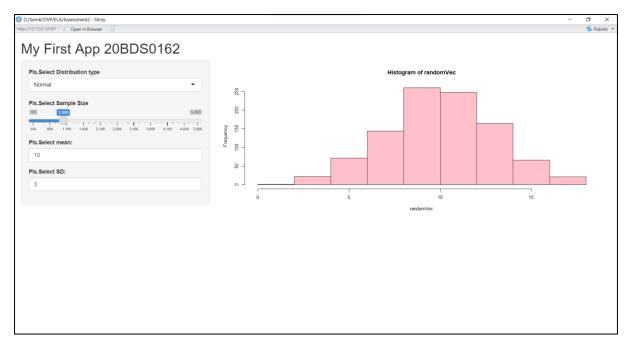
Q1. Create a Simple dashboard using Shiny.

```
Aim: To create a simple dashboard in R using the Shiny library
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```
Code:
```

```
ui.R
install.packages("shiny")
install.packages("shinydashboard")
library(shiny)
library(shinydashboard)
shinyServer(
 pageWithSidebar(
  headerPanel("My First App 20BDS0162"),
  sidebarPanel(
   selectInput("Distribution", 'PIs. Select Distribution type',
          choices =c('Normal','Exponential')),
   sliderInput("sampleSize",
          'Pls.Select Sample Size',
          min =100,max=5000,
          value=1000, step=100),
   conditionalPanel(condition="input.Distribution=='Normal"",
            textInput("mean","Pls.Select mean:",10),
            textInput("sd","Pls.Select SD:",3)),
   conditionalPanel(condition="input.Distribution=='Exponential'",
            textInput("lambda", "Pls. Select Exp lamda: ",1))
  ),
  mainPanel(plotOutput('myPlot'))
server.R
```

Output:



Result:

Successfully created a straightforward dashboard in R using the Shiny package. The dashboard shows a randomVec histogram, and the user may select the normal or exponential distribution type, as well as the sample size, mean, and standard deviation for each distribution.