QUESTION:

Write an R code to create a dashboard using the 'Shiny' module.

CODE:

• Server:

```
shinyServer(
  function(input, output, session)
{
   output$myPlot <- renderPlot({
     distributionType <- input$distribution
     size <- input$sampleSize
     if (distributionType == "Normal")
     {
        randomeVector <- rnorm(size, mean = as.numeric(input$mean), sd =
     as.numeric(input$standardDeviation))
     }
     else
     {
        randomVector <- rexp(size, rate = 1 / as.numeric(input$lambda))
     }
     hist(randomVector, col = 'purple')
     })
}</pre>
```

• User Interface:

```
library(shiny)
library(shinydashboard)

#Creating an application name called 'shinyServer'
shinyServer(
  pageWithSidebar(
    headerPanel("20BDS0374"),
    sidebarPanel(
       selectInput("distribution", "Please select the distribution type"),
       choices = c('Normal', 'Exponential')
    ),
    sliderInput("sampleSize", "Please select a sample size", min = 100, max = 5000, step = 100),
```

OUTPUT:

Afraaz Hussain | 20BDS0374



