**ibrary(shiny)**

**# Define UI for application that draws a histogram**

**ui <- fluidPage(**

**# Application title**

**titlePanel("Random generation"),**

**# Sidebar with a slider input for number of bins**

**sidebarLayout(**

**sidebarPanel(**

**sliderInput("bins",**

**"Number of bins:",**

**min = 1,**

**max = 20,**

**value = 30)**

**),**

**# Show a plot of the generated distribution**

**mainPanel(**

**plotOutput("distPlot")**

**)**

**)**

**)**

**# Define server logic required to draw a histogram**

**server <- function(input, output) {**

**output$distPlot <- renderPlot({**

**# generate bins based on input$bins from ui.R**

**x    <- runif(20, 1.0, 100.0)**

**bins <- seq(min(x), max(x), length.out = input$bins + 1)**

**# draw the histogram with the specified number of bins**

**hist(x, breaks = bins, col = 'blue', border = 'white')**

**})**

**}**

**# Run the application**

**shinyApp(ui = ui, server = server)**