# Challenge-8

Marzuki Nooranas

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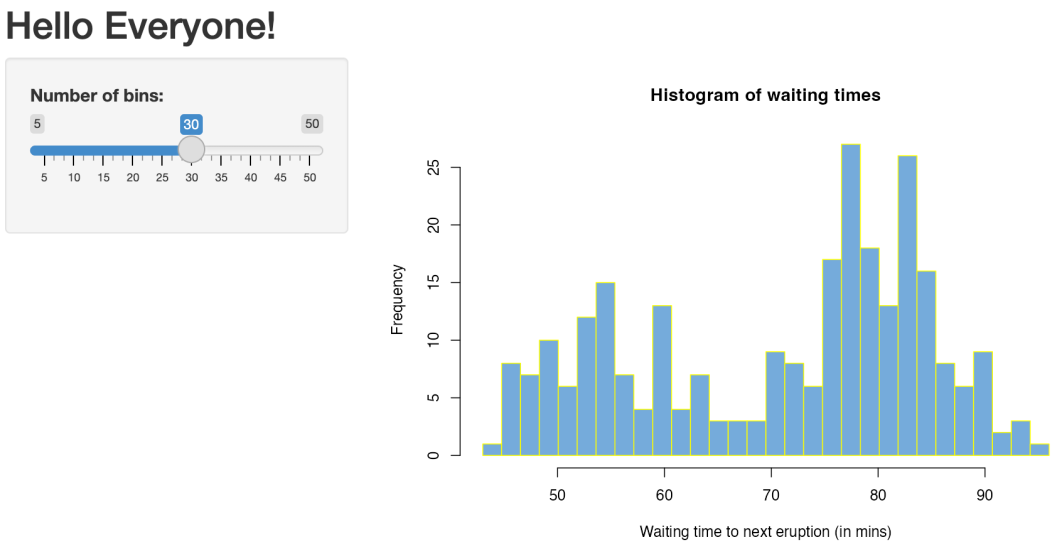
## Code Along Example

```
knitr::include_graphics("/Users/marzuki/Desktop/NM2207/NM2207/Week-8/code_along.png")
```




```
library(shiny)

# Define UI for app that draws a histogram ----
ui <- fluidPage(

  # App title ----
  titlePanel("Hello Everyone!"),

  # Sidebar layout with input and output definitions ----
  sidebarLayout(

    # Sidebar panel for inputs ----
    sidebarPanel(

      # Input: Slider for the number of bins ----
      sliderInput(inputId = "bins",
                  label = "Number of bins:",
                  min = 5,
                  max = 50,
                  value = 30)

    ),

    # Main panel for displaying outputs ----
    mainPanel(

      # Output: Histogram ----
      plotOutput(outputId = "distPlot")

    )
```

```
  )
)

# Define server logic required to draw a histogram ----
server <- function(input, output) {

  # Histogram of the Old Faithful Geyser Data ----
  # with requested number of bins
  # This expression that generates a histogram is wrapped in a call
  # to renderPlot to indicate that:
  #
  # 1. It is "reactive" and therefore should be automatically
  #    re-executed when inputs (input$bins) change
  # 2. Its output type is a plot
  output$distPlot <- renderPlot({

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

    hist(x, breaks = bins, col = "#75AADB", border = "yellow",
         xlab = "Waiting time to next eruption (in mins)",
         main = "Histogram of waiting times")

  })

}

# Create Shiny app ----
shinyApp(ui = ui, server = server)
```

## Challenge 8

```
knitr::include_graphics("/Users/marzuki/Desktop/NM2207/NM2207/Week-8/challenge.png")
```

# My Shiny App!

Integer:

0 500 1,000

0 100 200 300 400 500 600 700 800 900 1,000

Decimal:

0 0.5 1

0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

Range:

1 200 500 1,000

1 101 201 301 401 501 601 701 801 901 1,000

Custom Format:

$0 $10,000

0 2,500 5,000 7,500 10,000

Looping Animation:

1 2,000

1 201 401 601 801 1,001 1,201 1,601 2,000

## Hello Everyone!

### I edited this already as my customisation

### I added a photo

**Here is the table:**

| Name | Value |
|---|---|
| Integer | 500 |
| Decimal | 0.5 |
| Range | 200 500 |
| Custom Format | 0 |
| Animation | 1 |

```
library(shiny)

# Define UI for slider demo app ----
ui <- fluidPage(

  # App title ----
  titlePanel("My Shiny App!"),
  img(src = "face.png", height = 140, width = 140),

  # Sidebar layout with input and output definitions ----
  sidebarLayout(

    # Sidebar to demonstrate various slider options ----
    sidebarPanel(

      # Input: Simple integer interval ----
      sliderInput("integer", "Integer:",
                  min = 0, max = 1000,
                  value = 500),

      # Input: Decimal interval with step value ----
      sliderInput("decimal", "Decimal:",
                  min = 0, max = 1,
                  value = 0.5, step = 0.1),

      # Input: Specification of range within an interval ----
      sliderInput("range", "Range:",
                  min = 1, max = 1000,
                  value = c(200,500)),

      # Input: Custom currency format for with basic animation ----
```

```r
      sliderInput("format", "Custom Format:",
                  min = 0, max = 10000,
                  value = 0, step = 2500,
                  pre = "$", sep = ",",
                  animate = TRUE),

      # Input: Animation with custom interval (in ms) ----
      # to control speed, plus looping
      sliderInput("animation", "Looping Animation:",
                  min = 1, max = 2000,
                  value = 1, step = 10,
                  animate =
                    animationOptions(interval = 300, loop = TRUE))

    ),

    # Main panel for displaying outputs ----
    mainPanel(
      h1("Hello Everyone!"),
      h2("I edited this already as my customisation"),
      h3("I added a photo"),
      strong("Here is the table:"),
      # Output: Table summarizing the values entered ----
      tableOutput("values")

    )
  )
)

# Define server logic for slider examples ----
server <- function(input, output) {

  # Reactive expression to create data frame of all input values ----
  sliderValues <- reactive({

    data.frame(
      Name = c("Integer",
               "Decimal",
               "Range",
               "Custom Format",
               "Animation"),
      Value = as.character(c(input$integer,
                             input$decimal,
                             paste(input$range, collapse = " "),
                             input$format,
                             input$animation)),
      stringsAsFactors = FALSE)

  })

  # Show the values in an HTML table ----
  output$values <- renderTable({
    sliderValues()
  })

}

# Create Shiny app ----
shinyApp(ui, server)
```