✖

Quiz 1

✓ **5/5** points
earned (100%)

Quiz passed!

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points

1.
Consider the following code for the cars data set

```
library(manipulate)
myPlot <- function(s) {
    plot(cars$dist - mean(cars$dist), cars$speed - mean(cars$speed))
    abline(0, s)
}
```

This function plots distance versus speed, each de-meaned and an associated line of slope s.
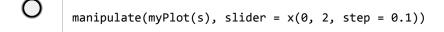
Which of the following code will make a manipulate plot that creates a slider for the slope?
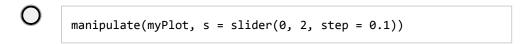
○
```
manipulate(myPlot(s), s = slider(0, 2, step = 0.1))
```

▲

Correct Response

○
```
manipulate(myPlot(s), slider = x(0, 2, step = 0.1))
```

○
```
manipulate(myPlot, s = slider(0, 2, step = 0.1))
```

○
```
manipulate(myPlot(s), x.s = slider(0, 2, step = 0.1))
```

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        points

2.

Which of the following code uses the **rCharts** package to create a sortable and searchable data table for the **airquality** data set? Assume the **rCharts** package and the **airquality** data set have already been loaded into R.

◉
```
dTable(airquality, sPaginationType = "full_numbers")
```

▲

Correct Response

○
```
d <- data.frame(airquality, stringsAsFactors = FALSE)print(d)
```

○
```
head(airquality)
```

○
```
airquality
```

✔   1 / 1
        points

3.

A basic shiny data product requires:

◉ A **ui.R** and **server.R** file or a A **server.R** file and a directory called **www** containing the relevant html files.

▲

Correct Response

○ A **server.R** file only.

○ A **ui.R** file only.

○ A **shiny.R** file.

---

        1 / 1

✔️ points

4.

What is incorrect about the followig syntax in `ui.R`?

```
library(shiny)
shinyUI(pageWithSidebar(
  headerPanel("Data science FTW!"),
  sidebarPanel(
    h2('Big text')
    h3('Sidebar')
  ),
  mainPanel(
      h3('Main Panel text')
  )
))
```

◯ The `h3` command should be an `h2` command.

◉ Missing a comma in the sidebar panel

▲

Correct Response

◯ The `h2` command has the wrong arguments.

◯ The `"Sidebar"` should say `"Sidebar text"`.

✔️ 1 / 1 points

5.

Consider the following code in `ui.R`

```
shinyUI(pageWithSidebar(
    headerPanel("Example plot"),
    sidebarPanel(
      sliderInput('mu', 'Guess at the mu',value = 70, min = 60, max = 8
0, step = 0.05,)  ),
    mainPanel(
      plotOutput('newHist')
    )
))
```

And the following `server.R` code.

```
library(UsingR)
data(galton)

shinyServer(
    function(input, output) {
        output$myHist <- renderPlot({
            hist(galton$child, xlab='child height', col='lightblue',main
='Histogram')
            mu <- input$mu
            lines(c(mu, mu), c(0, 200),col="red",lwd=5)
            mse <- mean((galton$child - mu)^2)
            text(63, 150, paste("mu = ", mu))
            text(63, 140, paste("MSE = ", round(mse, 2)))
            })       }
)
```

Why isn't it doing what we want?

○   The phrase "Guess at the mu value" should say "mean" instead of "mu"

○   The limits of the slider are set incorrectly and giving an error.

○   It should be `mu <- input$mean` in server.R

◉   The server.R output name isn't the same as the plotOutput command used in ui.R.

Correct Response