

# Exercises: Shiny Basics (Basic)

## Exercises: Shiny Basics

### Overview of Exercises

This exercise is designed to consolidate the very fundamentals of a shiny app and the syntax required. They are minimal examples of what Shiny is capable of.

Use the same project for both exercises.

### Exercise 1

1.1 Create a project (refer back to the notes in the RMarkdown section of the course if necessary) containing both a ui.R and server.R file, you may find it useful to use the template files provided to you.

1.2 If you followed along with the instructors live-coding example, use the code from there. Otherwise you will need to add the following to your files:

ui:

```
plotOutput("curvePlot")
```

server:

```
output$curvePlot <- renderPlot({  
  curve(x,  
        from = -5,  
        to = 5)  
})
```

1.4 Modify the server so that the curve( $x^{\text{slider}}$ ) is generated

1.5 Run the app and ensure it works.

### Exercise 2

2.1 Add a control to the Shiny app you built before that allows you to type your name

2.2 Use the “main” argument of `curve` to provide your name as the title of the plot

2.3 Use the `paste` function to combine the your name with the current value of the exponent, for instance: “Plot of  $x^4$  (by Johanna Smith)”

```
paste("this", "that")
```