

Course 9 - Developing Data Products - Week 4 Assignment 3 - server.R

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R Markdown for server.R

```
library(shiny)
shinyServer(function(input, output) {
  mtcars$wtsp <- ifelse(mtcars$wt - 3 > 0, mtcars$mpg - 3, 0)
  model1 <- lm(mpg ~ wt, data = mtcars)

  model1pred <- reactive({
    wtInput <- input$sliderwt
    predict(model1, newdata = data.frame(wt = wtInput))
  })

  output$plot1 <- renderPlot({
    wtInput <- input$sliderwt

    plot(mtcars$wt, mtcars$mpg, xlab = "Weight",
         ylab = "Miles per Gallon", bty = "n", pch = 16,
         xlim = c(1, 6), ylim = c(10, 35))
    if(input$showModel1){
      abline(model1, col = "red", lwd = 2)
    }
    legend(25, 250, "Model 1 Prediction", pch = 16,
          col = "red", bty = "n", cex = 1.2)
    points(wtInput, model1pred(), col = "red", pch = 16, cex = 2)
  })

  output$pred1 <- renderText({
    model1pred()
  })
})
```