

PUTTING THE FORM IN FORMATTER

What You'll Be Building

This project will help you create a small program that will read a user's input and correct his or her capitalization. Users can provide an almost infinite range of input, so it makes our lives easier as programmers to make their input standard before doing anything with it.

Instructions

Check out the code in the editor—we've added some new things that we'll be teaching you. Can you guess what it does? Click Run to find out!

Answer each question, and hit enter (return on some keyboards).

script.rb

```
print "What's your first name? "  
first_name = gets.chomp  
first_name.capitalize!  
  
print "What's your last name? "  
last_name = gets.chomp  
last_name.capitalize!  
  
print "What city are you from? "  
city = gets.chomp  
city.capitalize!  
  
print "What state or province are you from? "  
state = gets.chomp  
state.upcase!  
  
puts "Your name is #{first_name} #{last_name} and you're from #{city}, #{state}!"
```

Prompting the User

First, let's write the code we're already familiar with. In order to get input from the user, we'll first need to `print` a prompt on the screen.

Instructions

1.

`print` the question "What's your first name?" to the screen. Feel free to peek back at the first exercise if you need a syntax reminder.

script.rb

```
print "What's' your first name? "
```

Getting Input

Good! Now let's try something new. You may have noticed this weird little line of code repeated in our example:

```
variable_name = gets.chomp
```

`gets` is the Ruby method that *gets* input from the user. When getting input, Ruby automatically adds a blank line (or **newline**) after each bit of input; `chomp` removes that extra line. (Your program will work fine without `chomp`, but you'll get extra blank lines everywhere.)

Instructions

1.

Declare a variable `first_name` and set it equal to `gets.chomp`.

This checkpoint may seem like it's running forever, but the terminal to the right is actually waiting for input because of `gets.chomp`. Answer the question in the terminal and press "Enter" or "Return" to finish checking your work.

Hint

After running your code you'll see `What is your first name?` printed. You can select the terminal with your cursor to type your name and then press `Enter`.

script.rb

```
print "What's' your first name? "

first_name = gets.chomp
```

Repeat for More Input

All right! Now we need to repeat what we've done for `last_name`, `city`, and `state`.

Instructions

1.

Add `print` prompts, variables, and `gets.chomp`s for the user's last name, city, and state/province. Use `last_name` as the variable for the user's last name, `city` for their city, and `state` for their state or province. (Hint: prompt the user to provide an abbreviation for their state or province, such as "NY" for New York. This will naturally lead us to use `.upcase` later!)

After pressing **Run**, type a response in the console and hit enter for each prompt.

`script.rb`

```
print "What's your first name? "
first_name = gets.chomp

print "What's your last name? "
last_name = gets.chomp

print "What city are you from? "
city = gets.chomp

print "What state or province are you from? "
state = gets.chomp
```

Printing the Output

As you may have noticed, Ruby's not returning any feedback to us. We want to be able to see our string formatting in action! For this, we'll need one more new piece of syntax.

If you define a variable `monkey` that's equal to the string "Curious George", and then a string that says "I took #{monkey} to the zoo", Ruby will do something called *string interpolation* and replace the `#{monkey}` bit with the value of `monkey`. Therefore, it will print "I took Curious George to the zoo".

We can do the same thing here. For example:

```
first_name = "Kevin"
puts "Your name is #{first_name}!"
```

The code above will print Your name is Kevin!.

Instructions

1.

Let's use this syntax to print out the values of `first_name`, `last_name`, `city`, and `state` using `#{}` syntax.

Press the **Run** button to test your code. Don't forget to enter your answers in the console!

Hint

Remember, your string interpolation always has to be contained within double quotes, like so:

```
n = "bacon"
puts "#{n}"
puts "I love #{n}!" # Prints: I love bacon!
```

script.rb

```
print "What's your first name? "
first_name = gets.chomp
puts "#{first_name}"

print "What's your last name? "
last_name = gets.chomp
puts "#{last_name}"

print "What city are you from? "
city = gets.chomp
puts "#{city}"

print "What state or province are you from? "
state = gets.chomp
puts "#{state}"
```

Formatting with String Methods

Great! Now we've got our output, but as you can see, we haven't used string methods to properly capitalize everything yet.

```
print "This is my question?"
answer = gets.chomp
answer2 = answer.capitalize
answer.capitalize!
```

1. First we introduce one new method, `capitalize`, here. It capitalizes the first letter of a string and makes the rest of the letters lower case. We assign the result to `answer2`
2. The next line might look a little strange, we don't assign the result of `capitalize` to a variable. Instead you might notice the `!` at the end of `capitalize`. This modifies the value contained within the variable `answer` itself. The next time you use the variable `answer` you will get the results of `answer.capitalize`

Instructions

1.

After each variable assignment: `first_name`, `last_name`, and `city` add the `.capitalize!` method

For `state` use the `.upcase!` method

Press **Run** to test your code. Don't forget to enter your answers in the console!

`script.rb`

```
print "What's your first name? "
first_name = gets.chomp
first_name.capitalize!
puts "#{first_name}"

print "What's your last name? "
last_name = gets.chomp
last_name.capitalize!
puts "#{last_name}"

print "What city are you from? "
city = gets.chomp
```

```
city.capitalize!  
puts "#{city}"  
  
print "What state or province are you from? "  
state = gets.chomp  
state.upcase!  
puts "#{state}"
```

Great Work!

Perfect! In just a few short steps, you've created your own Ruby program with real-world applications. Feel free to add to your program or change it as much as you like.

Instructions

When you're ready, click Run to complete this project.

Make sure to type your answers in the console!

script.rb

```
print "What's your first name? "  
first_name = gets.chomp  
first_name.capitalize!  
puts "#{first_name}"  
  
print "What's your last name? "  
last_name = gets.chomp  
last_name.capitalize!  
puts "#{last_name}"  
  
print "What city are you from? "  
city = gets.chomp  
city.capitalize!  
puts "#{city}"  
  
print "What state or province are you from? "  
state = gets.chomp  
state.upcase!
```

```
puts "#{state}"
```
