Lesson 5 Homework: Review, Git, & GitHub

# Review

1. Write a script that takes user input and passes it to a method as an argument and then displays it into the following concatenated string.  
   "Hello (name). Nice to meet you."

1. Correct the code below so it displays the sum of x, y, and z  
   def sum\_numbers(x,y)  
    x+y+z  
   end
2. Add to the code below so it displays "Don't forget to (to do item)." for each item.  
   to\_do = ["wash the car", "buy groceries", "finish homework", "pay the bills"]
3. Without running the code, what do you think is the return value of the following?  
   def avg(a, b, c, d)  
    total =a + b + c + d  
    avg = total / 4  
    c + d  
   end  
   puts avg(5, 8, 6, 10)
4. Without running the code, what is the return value of the following?  
   names = ['David', 'Trevor', 'Sarah', 'Mason']  
   puts names[2]
5. How do you add "bobcat" to this list of wild cat species?  
   wild\_cats= ['cheetah', 'lion', 'leopard', 'tiger']
6. How do you retrieve the birthplace of user1?  
   user1= {:firstname=> "Johnny", :lastname => "Begood",   
    :gender => "male", :dob => "08/21/1981",   
    :birthplace => "Seattle, WA"}
7. How do you add "Atlanta, GA " as the current city for user1 in the hash from the last question?
8. How would you retrieve "y" in the following array?  
   alpha\_soup= ["c", "k", "y", "u"]
9. How would you retrieve "14" in the following hash?  
   alphabits= {"d" =>4, "k" => 14, "u" => 52}
10. Write a loop that continues to display random numbers between 1 and 10 until the number generated is 7.
11. Continuing from question 11 above, push each randomly generated number to an array. Then use an each loop and a conditional statement inside to display the total amount of numbers that are under 6. Then display a statement that reads: "There are (total) numbers under 6.”
12. *(Optional - will be taught in next lesson)* Write code to create a new instance of a Vehicle object and make it honk.  
    Class Vehicle  
     def initialize(color, type)  
     @color = color  
     @type = type # car, truck, motorcycle, scooter, van  
     end  
     def honk  
     puts "Beep!"  
     end  
    end

# Git and GitHub

Save these resources:

* [git - the simple guide](http://rogerdudler.github.io/git-guide/)
* [git/github cheat sheet](https://training.github.com/kit/downloads/github-git-cheat-sheet.pdf)

Consider doing the [Udacity course on Git and GitHub](https://www.udacity.com/course/how-to-use-git-and-github--ud775). It takes a while but will give you a much deeper understanding of these tools.

Commit whenever the teachers do or even more often.

Do more Ruby practice.