**Number Guess**

Wanna play a game? In this project, we'll build a program that rolls a pair of [dice](https://en.wikipedia.org/wiki/Dice) and asks the user to guess the sum. If the user's guess is equal to the total value of the dice roll, the user wins! Otherwise, the computer wins.

The program should do the following:

1. Roll a pair of dice.
2. Add the values of the roll.
3. Ask the user to guess a number.
4. Compare the user's guess to the total value.
5. Determine the winner (user or computer).

Let's begin!

To "sleep" a program means to delay it from processing the next line of code by an amount of time that you specify.

Sleeping a program is not common practice. We are using it in this project to practice to simulate dice rolls:

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| """  Codecademy - Learn Python Number Guess  """  #To make sure that the rolls are random, we will need some Python code that isn't built-in – we need to import the randint function, from the random module.  from random import randint  from time import sleep  #First, we'll have to prompt the user for their guess.  def get\_user\_guess():  #Store the input into a variable called guess.  #we will need an integer, not a string.  guess = int(raw\_input("Please guess a number:"))  #return the user's guess.  return guess  #The roll\_dice function will be used to simulate the rolling of a pair of dice.  #We'd like to specify the number of sides that a single die will have.  def roll\_dice(number\_of\_sides):  #A single die can land on any value that's at least 1 and no greater than the number of sides.  first\_roll = randint (1, number\_of\_sides)  second\_roll = randint (1, number\_of\_sides)  #Now let's calculate the maximum value the program can possibly roll. This will help us set some rules for the game later.  max\_val = number\_of\_sides \* 2  #let the user know what the maximum possible value is  print "The maximum possible value is %d" % (max\_val)  #the function will return the user's guess after prompting the user.  guess = get\_user\_guess()  #checks if the user's guess is greater than the maximum value.  if guess > max\_val:  print "No guessing higher than the maximum possible value!"  else:  print "Rolling...."  sleep(2)  print "The first roll is %d" % first\_roll  sleep(1)  print "The second roll is %d" % second\_roll  sleep(1)  #To determine a winner, we will need to use the total value of the dice roll.  #the sum of the first roll and the second roll.  total\_roll = first\_roll + second\_roll  #print the total roll to the user.  print "The total value is %d" % total\_roll  print "Result...."  sleep(1)  #if the user's guess is greater than the total roll.  if guess==total\_roll:  print "You won!"  #user's guess is less than the total roll  else:  print "You lost,try again."  #call the function.  roll\_dice(6) |