King Dice Roller

Due: Monday, September 24th

Objective: To implement a program that creates a simple guessing game based on the rolling of two dice. This assignment will be building on a wide scope of programming topics that have already been covered, such as I/O, formatted output, loops, conditional statements, assignment operators, logic operators, and the use of the import statement to import a module into your program that will be used to give it added functionality.

Description: In many variations of guessing games, the main goal is to (as the name suggests), guess the correct value of something. In this assignment, you will have to implement a program that "rolls" two 6-sided die and finds the sum of their values; the player gets only THREE chances to guess correctly. Every time a guess is entered, print to the screen whether that entered value is too high from the generated value or too low from it, along with displaying the number of attempts the player has left. This will be to help the player in narrowing down the correct guess as opposed to blind guesswork. To implement these three guessing opportunities, the use of a looping statement will help to minimize the amount of code required. Recall how **break** and **continue** statements work, as these will also help in minimizing the amount of code to write up. If all attempts to guess have been exhausted, print out the value of the sum of both rolled dice. An additional requirement for this project will be to ensure to safeguard the player from out-of-bound guesses. For example, there is no such thing as a negative sum if both summed numbers are positive, likewise with a sum of 0 as the minimum face value of both die will be 1. On these out-of-bounds guesses, make sure NOT to take off any attempts. In other words, if the player has two attempts left but enters an out-of-bounds guess, they must still have two attempts left.

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Welcome to King Dice Roller!
The rules of the game are simple! There are two, 6-sided dice!
Both dice will be rolled, and you must guess their sum!
Keep in mind, there are only three opportunities to guess!

Please enter a guess: 8
Too high! Try again!
Attempts left: 2

Please enter a guess: 1
Out of bounds! Please try again!
Attempts left: 2

Please enter a guess: 5
Too high! Try again!
Attempts left: 1

Please enter a guess: 2
Too low! Try again!
Attempts left: 0

The sum was: 3

Thanks for playing!
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Note: Save your file as "firstname_lastname_dice.py".