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1  #Conditionals Challenge 17: Coin Toss App
2  import random
3
4  print("Welcome to the Coin Toss App")
5  print("\nI will flip a coin a set number of times.")
6
7  #Get user input
8  flip_number = int(input("How many times would you like me to flip the coin: "))
9  choice = input("Would you like to see the result of each flip (y/n): ").lower()
10
11 print("\nFlipping!!!\n")
12
13 #Initialize variables
14 heads = 0
15 tails = 0
16
17 #The main loop
18 for flips in range(flip_number):
19     #Create the coin object
20     coin = random.randint(0,1)
21
22     if coin == 1:
23         heads += 1
24         if choice.startswith('y'):
25             print("HEADS")
26     else:
27         tails += 1
28         if choice.startswith('y'):
29             print("TAILS")
30
31     if heads == tails:
32         print("At " + str(flips + 1) + " flips, the number of heads and tails
were equal at " + str(heads) + " each.")
33
34 #Calculate percentages
35 heads_percentage = round(100*heads/flip_number, 2)
36 tails_percentage = round(100*tails/flip_number, 2)
37
38 #Print the results
39 print("\nResults of Flipping a Coin " + str(flip_number) + " Times: ")
40 print("\nSide\t\tCount\t\tPercentage")
41 print("Heads\t\t" + str(heads) + "/" + str(flip_number) + "\t\t" +
str(heads_percentage) + "%")
42 print("Tails\t\t" + str(tails) + "/" + str(flip_number) + "\t\t" +
str(tails_percentage) + "%")

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