import random

def coin\_toss():

return random.choice(["Heads", "Tails"])

def simulate\_tosses(num\_flips):

results = {"Heads": 0, "Tails": 0}

for \_ in range(num\_flips):

result = coin\_toss()

results[result] += 1

print(f"Toss result: {result}")

return results

def display\_results(results, num\_flips):

print("\n--- Coin Toss Summary ---")

for side in ["Heads", "Tails"]:

count = results[side]

percentage = (count / num\_flips) \* 100

print(f"{side}: {count} ({percentage:.2f}%)")

def main():

print("Welcome to the Virtual Coin Toss Simulator!")

while True:

try:

num\_flips = int(input("\nEnter the number of times you want to flip the coin: "))

if num\_flips <= 0:

print("Please enter a positive number.")

continue

except ValueError:

print("Invalid input. Please enter an integer.")

continue

results = simulate\_tosses(num\_flips)

display\_results(results, num\_flips)

repeat = input("\nDo you want to flip again? (yes/no): ").strip().lower()

if repeat != "yes":

print("Thank you for using the simulator. Goodbye!")

break

if \_\_name\_\_ == "\_\_main\_\_":

main()