Dice Game:

import random

def roll\_dice():

    return random.randint(1, 6)

def main():

    print("Welcome to the Simple Dice Game!")

    print("You need to guess the number that will appear on the dice.")

    while True:

        target\_number = roll\_dice()

        while True:

            try:

                guess = int(input("Enter your guess (1-6): "))

                if 1 <= guess <= 6:

                    break

                else:

                    print("Invalid guess. Please enter a number between 1 and 6.")

            except ValueError:

                print("Invalid input. Please enter a valid number.")

        print("Rolling the dice...")

        print(f"The number on the dice is: {target\_number}")

        if guess == target\_number:

            print("Congratulations! Your guess is correct!")

        else:

            print("Sorry, your guess is incorrect.")

        play\_again = input("Do you want to play again? (yes/no): ").lower()

        if play\_again != "yes":

            print("Thank you for playing! Goodbye!")

            break

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

    main()