Activity 12

Create a function max\_of\_three that takes three numbers as arguments and returns the largest of them and also create a parameter function that checks whether a given number is Armstrong or not.

def max\_of\_three(a, b, c):

    """Return the largest of three numbers."""

    return max(a, b, c)

def is\_armstrong(number):

    """Check if a number is an Armstrong number."""

    num\_str = str(number)

    num\_digits = len(num\_str)

    armstrong\_sum = sum(int(digit) \*\* num\_digits for digit in num\_str)

    return armstrong\_sum == number

# Example usage for max\_of\_three

num1 = float(input("Enter the first number: "))

num2 = float(input("Enter the second number: "))

num3 = float(input("Enter the third number: "))

largest = max\_of\_three(num1, num2, num3)

print(f"The largest of {num1}, {num2}, and {num3} is: {largest}")

# Example usage for is\_armstrong

num = int(input("Enter a number to check if it's an Armstrong number: "))

if is\_armstrong(num):

    print(f"{num} is an Armstrong number.")

else:

    print(f"{num} is not an Armstrong number.")