Write a python program to find the sum of all digits in a triangle

CODE:

def sum\_of\_digits\_in\_triangle(triangle):

total\_sum = 0

for row in triangle:

for number in row:

total\_sum += int(number)

return total\_sum

# Taking user input to create a triangular pattern

rows = int(input("Enter the number of rows in the triangular pattern: "))

triangle = []

for i in range(1, rows + 1):

row = input(f"Enter space-separated numbers for row {i}: ").split()

triangle.append([int(num) for num in row])

# Calculating the sum of all digits in the triangle and displaying the result

result = sum\_of\_digits\_in\_triangle(triangle)

print(f"Sum of all digits in the triangle is: {result}")

OUTPUT:

Enter the number of rows in the triangular pattern: 4

Enter space-separated numbers for row 1: 3

Enter space-separated numbers for row 2: 4 6

Enter space-separated numbers for row 3: 2 7 6

Enter space-separated numbers for row 4: 8 5 9 3

Sum of all digits in the triangle is: 53

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