Write a program to find the sum of digits of N digit number (sum should be single digit)

Sample Input: Enter N value : 3 Enter 3 digit number: 143

Sample Output: Sum of 3 digit number: 8

CODE:

def calculate\_single\_digit\_sum(number):

digit\_sum = 0

while number > 0:

digit\_sum += number % 10

number //= 10

if digit\_sum >= 10:

return calculate\_single\_digit\_sum(digit\_sum)

else:

return digit\_sum

# Example usage:

N = int(input("Enter N value: "))

input\_number = int(input(f"Enter {N} digit number: "))

if len(str(input\_number)) != N:

print(f"Entered number should be {N} digits long.")

else:

result = calculate\_single\_digit\_sum(input\_number)

print(f"Sum of {N} digit number: {result}")

OUTPUT:

Enter N value: 3

Enter 3 digit number: 143

Sum of 3 digit number: 8

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