Write a program to print number of factors and to print nth factor of the given number.

Sample Input: Given Number: 100

N = 4

Sample Output:

Number of factors = 9 4th factor of 100 = 5

CODE:

def find\_factors\_and\_nth\_factor(number, N):

factors = []

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

if number % i == 0:

factors.append(i)

num\_factors = len(factors)

print("Number of factors =", num\_factors)

if N <= num\_factors:

print(f"{N}th factor of {number} =", factors[N - 1])

else:

print(f"Error: {N} is greater than the number of factors.")

# Example usage:

given\_number = int(input("Enter the given number: "))

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

find\_factors\_and\_nth\_factor(given\_number, N)

OUTPUT:

Enter the given number: 100

Enter N: 4

Number of factors = 9

4th factor of 100 = 5

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