import sympy as sp

# Define variables

x, y = sp.symbols('x y')

# Define the exponent

n = 5

# Calculate binomial coefficients

coefficients = [sp.binomial(n, k) for k in range(n + 1)]

# Initialize the expanded expression

expanded\_expression = 0

# Calculate the expanded expression

for k in range(n + 1):

term = coefficients[k] \* (x\*\*(n - k)) \* (y\*\*k)

expanded\_expression += term

# Print the result

print("Expanded Expression:", sp.expand(expanded\_expression))