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Problem – 2 : Pascal's Triangle
def pascals_triangle_element(r, c):
  if c == 1 or c == r:
     return 1
  else:
     return pascals triangle element(r - 1, c - 1) + pascals triangle element(r - 1, c)
def pascals triangle row(n):
  row = []
  for i in range(1, n + 1):
     row.append(pascals_triangle_element(n, i))
  return row
def pascals triangle(n):
  triangle = []
  for i in range(1, n + 1):
     triangle.append(pascals triangle row(i))
  return triangle
# Variation 1: Print the element at position (r, c) in Pascal's triangle
r = 5
c = 3
element = pascals_triangle_element(r, c)
print("Result (Variation 1):", element)
# Variation 2: Print the n-th row of Pascal's triangle
n = 5
row = pascals triangle row(n)
print("Result (Variation 2):", ' '.join(str(x) for x in row))
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# Variation 3: Print the first n rows of Pascal's triangle
n = 5
triangle = pascals_triangle(n)
print("Result (Variation 3):")
for row in triangle:
    print(''.join(str(x) for x in row))
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