**6. Number of distinct ways to climb n steps (1 or 2 steps)**

def climb\_stairs(n):

if n <= 2:

return n

dp = [0] \* (n+1)

dp[1], dp[2] = 1, 2

for i in range(3, n+1):

dp[i] = dp[i-1] + dp[i-2]

print(f"Number of ways to climb {n} steps:", dp[n])

return dp[n]

# Example:

climb\_stairs(5)