

Exersice 107:- Computing a binomial coefficient

Program:-

```
def binomialCoeff(n, k):  
    C = [[0 for _ in range(k + 1)] for _ in range(n + 1)]  
    for i in range(n + 1):  
        for j in range(min(i, k) + 1):  
            if j == 0 or j == i:  
                C[i][j] = 1  
            else:  
                C[i][j] = C[i - 1][j - 1] + C[i - 1][j]  
    return C[n][k]  
  
n = 5  
k = 2  
print(f"C({n}, {k}) = {binomialCoeff(n, k)}") # Output: C(5, 2) = 10  
output:-
```

```
C(5, 2) = 10
```

```
=== Code Execution Successful ===
```

Time complexity:- $O(k)$