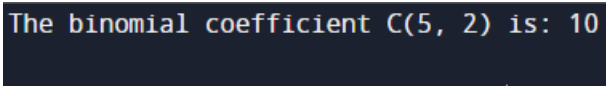


104. Computing a Binomial coefficient

AIM: To computing a binomial coefficient into a specific activation

PROGRAM:

```
def binomial_coefficient(n, k):  
    C = [[0] * (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"The binomial coefficient C({n}, {k}) is:", binomial_coefficient(n, k))
```

OUTPUT: 

TIME COMPLEXITY: $O(n, k)$